

| NO | Test name                    | Sample type  | S.Vol (ml) | Assay method             | Testing date | Storage                                     | Transport   | Preparation before sampling  | Reject  | Others  |
|----|------------------------------|--|------------|--------------------------|--------------|---|---|--|---|---|
| 1  | 17 Ketosteroids              | U(24&R)<br>See table 1 PH: 2-4                               | 10         | Chemical<br>Column chrom | 15 days      | 7 days at 2-8°c<br>1 months at -20°c        | at 2-8°c, -20°c   | a large number of Substances may interfere with this test.Decreases may be caused by:<br>Carbamazepine,Cephaloridine,cephalotin,chlormerodrin digoxin glucose metyrapone promazine propoxyphene reserpine and others increases may be caused by acetone acetophenide ascorbic acid chloramphenicol chlorothiazide and others |   |   |
| 2  | 17 OH progestrone            | S, PH  | 0.3        | Elisa                    | sun&wed      | 7 days at 2-8°c<br>3 months at -20°c        | Frozen (preferred)<br>28 days - Refrigerated<br>28 days | Avoid Using Medication   | Hemolysis-Lipemia-Icterus (Mild OK; Gross OK) |   |
| 3  | 2ME                          | S, BF  | 0.4        | Tube aggl.               | Daily        | 1 week at 2-8°c<br>for longer time at -20°c | at 2-8°c, -20°c   | Not recommended  | Hemolysis-Lipemia-Icterus                     | Transfer samples to be frozen                           |
| 4  | ACE                          | S, PH  | 0.3        | Enzymatic                | sun&wed      | 5 days at 2-8°c<br>2 month at -20°c         | at 2-8°c, -20°c   | Notice use Of captopril,enalapri,...that effected ACE Level,Do not use other types of plasma samples   | hemolysis                                     | Be separated quickly                                    |
| 5  | Acetaminophen                | S  | 1          | HPLC                     | sun&wed      | 7 days at 2-8°c<br>2 months at -20°c        | at 2-8°c, -20°c   | Not recommended  | hemolysis                                     | Be separated quickly.avoid repeated freeze/thaw cycles  |
| 6  | acetyl morphine              | WB,BF  | 2,5        | TLC                      | Daily        | 4 days at 2-8°c Ur.:<br>1 months at -20°c   | at 2-8°c, -20°c   |  |   |   |
| 7  | Acetylcholine receptor Ab    | S  | 0.5        | Elisa                    | 15 days      | 1 week at 2-8°c for longer time at -20°c    | at 2-8°c, -20°c   | Not recommended  |   | Be separated quickly                                    |
| 8  | Acid phosphatase (prostatic) | S(added 30 µl acetic acid 1.5 mol/lto 1 ml of serum and mix) | 0.3        | Photometric              | 15 days      | 5 hrs.at RT &7 days At 2-8°c                | at 2-8°c  | fasting is recommended abstain using of cefotaxim few days prior to collection.avoid prostate massage & rectal exam 2 days prior to collection   | hemolysis,icteric,lipemic                     | be separated quickly avoid repeated freeze /thaw cycles |

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| 9  | Acid phosphatase (total) | S (added 30 µl acetic acid 1.5 mol/l to 1 ml of serum and mix) | 0.3        | Photometric  | 15 days      | 5 hrs.at RT & 5 days at 2-8°c & 3 months at -20°c                                    | at 2-8°c, -20°c | fasting is recommended abstain using of cefotaxim few days prior to collection.avoid prostate massage & rectal exam 2 days prior to collection | hemolysis,icteric,lipemic  | be separated quickly avoid repeated freeze /thaw cycles  |
| 10 | ACTH                     | PE   | 0.5        | ECLIA        | Daily        | Stable for 2 hours at 22°c, Refrigerated 3 hours, 28 days at -20°c. Freeze only once | at -20°c        | Fasting. Avoid using of tourniquet   | Do not use other types of plasma samples                           | Spin down in a refrigerated centrifuge within 2 hours and immediately separate plasma from cells- Immediately freeze plasma. |
| 11 | ADA                      | S, PE, CSF, BF   | 0.5        | Enzymatic    | Daily        | 5 days at 2-8°c 1 month at -20°c   | at 2-8°c, -20°c | Not recommended  | hemolysis  |  |
| 12 | Albumin                  | S, PE, PH, U   | 0.5        | Photometric  | Daily        | 7 days at 2-8°c 3months at -20°c   | at 2-8°c, -20°c | Not recommended  | hemolysis,icteric,lipemic  |  |
| 13 | Aldolase                 | S, PH, PE  | 0.5        | Enzymatic    | sun&wed      | 7 days at 2-8°c 1 month at -20°c   | at -20°c        | Not recommended  | hemolysis,icteric,lipemic  | Be separated quickly   |
| 14 | Aldosterone              | PE   | 0.3        | Elisa        | Daily        | 4 hrs.at 2-8°c 4 weeks at -20°c  | at -20°c        | Not recommended  | hemolysis,icteric,lipemic  | Be separated quickly-Ice transferred   |
| 15 | Alkaline phosphatase     | S, PH  | 0.5        | Photometric  | Daily        | Analyse sample until 4 hours   | at 2-8°c, -20°c | Fasting, Notice use of   |  |  |
| 16 | Alpha 1 Anti Trypsin     | S, PH  | 0.3        | Enzymatic    | 15 days      | 1 week at 2-8°c for longer time at -20°c   | at 2-8°c, -20°c | hepatotoxic drugs  | hemolysis,icteric,lipemic  | Be separated quickly   |
| 17 | Alpha fetoprotein        | S, PH  | 0.3        | CLIA         | Daily        | up to 7 days: at 2-8°c   | at 2-8°c, -20°c |  | Specimens with obvious microbial contamination should not be used. |  |

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| 18 | alprazolam                | S                              | 1                 | HPLC         | 7 days       | 7days at 2-8°c<br>2 Months at -20°c                   | at 2-8°c, -20°c | Not recommended   |                           |  |
| 19 | Amino acid chromatography | PE (prefered), CSF, U (random) | u:10<br>others :1 | HPLC         | 15 days      | 1 days at 2-8°c<br>1 months at -20°c                  | at 2-8°c, -20°c | fasting-urine must be fresh                                     | Hemolysis                 | pelasma sample be seperated quickly  |
| 20 | Ammonia                   | PE                             | 0.5               | Colorimetry  | Daily        | 20 min at 4°c,1 day at -20°c,for longer time at -70°c | at -20°c        |   |                           | be separated quiqkly and transport on ice.refrigerated centrifuge must be used |
| 21 | Amphetamines (drug abuse) | WB, BF                         | 2,5               | TLC          | Daily        | 4 days at 2-8°c Ur.:<br>1 months at -20°c             | at 2-8°c, -20°c |   |                           |  |
| 22 | Amylase                   | S, PE, PH, U                   | 0.5,5             | Photometric  | Daily        | 7 days at 2-8°c-1months at -20°c Ur.:7 days at -20°c  | at 2-8°c, -20°c | fasting   | hemolysis,icteric,lipemic |  |
| 23 | ANA                       | S                              | 0.5               | Elisa-IF     | Daily        | 3 days at 4°c or -20°c for longer time at -70°c       | at 2-8°c, -20°c |   |                           |  |
| 24 | ANCA C(PR3)               | S, PE, PH                      | 0.5               | IIFT         | Daily        | 1 week at 2-8°c for longer time at -20°c              | at 2-8°c, -20°c | No  | hemolysis,icteric         |  |
| 25 | ANCA P(MPO)               | S, PE, PH                      | 0.5               | IFA-Elisa    | Daily        | 1 week at 2-8°c for longer time at -20°c              | at 2-8°c, -20°c |   | hemolysis,icteric,lipemic |  |
| 26 | Androstenedione           | S, PE                          | 0.5               | Elisa        | Sat          | 1 week at 2-8°c for longer time at -20°c              | at -20°c        | Fasting. Sample collection 1 week before or after menstruation. |                           |  |

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| 27 | Anti smooth muscle Ab (ASMA)    | S           | 0.5        | IIFT          | Daily        | 7 days at 2-8°c-1month at -20°c                          | at 2-8°c, -20°c | No                          | Hemolysis, Frozen, Clotting, Incorrect anticoagulant   |                                 |
| 28 | Anti A titer                    | S           | 0.5        | Agglutination | 7 days       | 7 days at 2-8°c for longer time at -20°c                 | at 2-8°c, -20°c | Not recommended             | hemolysis, icteric, lipemic  |                                 |
| 29 | Anti B titer                    | S           | 0.5        | Agglutination | 7 days       | 7 days at 2-8°c for longer time at -20°c                 | at 2-8°c, -20°c | Not recommended             | hemolysis, icteric, lipemic  |                                 |
| 30 | Anti B2 Glycoprotein Ab (G&A&M) | S, PE       | 0.5        | Elisa         | sat&wed      | 7 day at 2-8°c for longer time at -20°c                  | at 2-8°c, -20°c | Not recommended             | hemolysis, icteric, lipemic  | avoid repeat freeze/thaw cycles |
| 31 | Anti C1q                        | S, PE, PH   | 0.5        | Elisa         | Daily        | 1 week at 2-8°c for longer time at -20°c                 | at 2-8°c, -20°c | fasting                     | hemolysis, icteric, lipemic  | avoid repeat freeze/thaw cycles |
| 32 | Anti Cardiolipin Ab (IgG)       | S, PE, PH   | 0.5        | Elisa         | Daily        | 1 week at 2-8°c for longer time at -20°c                 | at 2-8°c, -20°c |                             | hemolysis, icteric, lipemic  | avoid repeat freeze/thaw cycles |
| 33 | Anti Cardiolipin Ab (IgM)       | S, PE, PH   | 0.5        | Elisa         | Daily        | 1 week at 2-8°c for longer time at -20°c                 | at 2-8°c, -20°c |                             | hemolysis, icteric, lipemic  | avoid repeat freeze/thaw cycles |
| 34 | Anti CCP                        | S, PE, PH   | 0.3        | Elisa         | Daily        | 22 hrs at RT&7 days at 2-8°c & for longer store at -20°c | at 2-8°c, -20°c | Not recommended             | body fluids other than serum or plasma<br>• obvious microbial contamination<br>• heat-inactivated specimens<br>hemolyzed specimens |                                 |
| 35 | Anti Centromer Ab (IgG)         | S, PE, PH   | 0.5        | Elisa         | Daily        | 1 week at 2-8°c for longer time at -20°c                 | at 2-8°c, -20°c |                             | hemolysis, icteric, lipemic  |                                 |

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| 36 | Anti DNA                 | S           | 0.5        | Elisa        | Daily        | 1 week at 2-8°c for longer time at -20°c | at 2-8°c, -20°c |                             | hemolysis,icteric,lipemic |        |
| 37 | Anti DNA (ds)            | S           | 0.5        | Elisa        | Daily        | 1 week at 2-8°c for longer time at -20°c | at 2-8°c, -20°c |                             | hemolysis,icteric,lipemic |        |
| 38 | Anti Endomesial Ab (IgA) | S, PE       | 0.5        | Elisa        | Sat&Tue      | 5 day at 2-8°c for longer time at -20°c  | at 2-8°c, -20°c |                             |                           |        |
| 39 | Anti Endomesial Ab (IgG) | S, PE       | 0.5        | Elisa        | Sat&Tue      | 5 day at 2-8°c for longer time at -20°c  | at 2-8°c, -20°c |                             |                           |        |
| 40 | Anti GAD                 | S           | 1          | Elisa        | 15 days      | 5 day at 2-8°c for longer time at -20°c  | at 2-8°c, -20°c | Not recommended             |                           |        |
| 41 | Anti GBM Ab              | S           | 0.5        | IIFT         | Daily        | 1 week at 2-8°c for longer time at -20°c | at 2-8°c, -20°c | Not recommended             | hemolysis,icteric,        |        |
| 42 | Anti Gliadin Ab (IgA)    | S, PE, PH   | 0.5        | Elisa        | sat&tue      | 1 week at 2-8°c for longer time at -20°c | at 2-8°c, -20°c | Fasting is recommended.     |                           |        |
| 43 | Anti Gliadin Ab (IgG)    | S, PE, PH   | 0.5        | Elisa        | sat&tue      | 1 week at 2-8°c for longer time at -20°c | at 2-8°c, -20°c | Fasting is recommended.     |                           |        |
| 44 | Anti Gm1 Ab (IgG-IgM)    | S           | 0.3        | Elisa        | by contact   | 5 days at 2-8°c<br>3 Months at -20       | at 2-8°c, -20°c |                             |                           |        |
| 45 | Anti histon              | S           | 0.5        | Elisa        | 15 days      | 5 days at 2-8°c<br>6 months at -20°c     | at 2-8°c, -20°c |                             |                           |        |

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| 46 | Anti intrinsic factor                 | S                        | 0.5                   | Elisa        | 15 days      | 5 day at 2-8°c for long time at -20°c    | at 2-8°c, -20°c |                             |                           | avoid repeat freeze/thaw cycles |
| 47 | Anti jo- 1 Ab                         | S                        | 0.5                   | Elisa        | mon&Thu      | 5 day at 2-8°c for longer time at -20°c  | at 2-8°c, -20°c | Not recommended             |                           |                                 |
| 48 | Anti Leptospira (IgG-IgM)             | S                        | 0.3                   | IFA          | by contact   | 7 Days at 2-8°c 2 months at -20°c        | at 2-8°c, -20°c |                             |                           |                                 |
| 49 | Anti mitochondrial Ab (AMA)           | S, PE                    | 0.5                   | IFA          | mon&Thu      | 7 day at 2-8°c for longer time at -20°c  | at 2-8°c, -20°c | Not recommended             |                           |                                 |
| 50 | Anti Mullerian hormone (AMH)          | S                        | 0.5                   | ECLIA        | Daily        | Freeze at -20°c for 3 months             | at -20°c        |                             |                           |                                 |
| 51 | Anti Parietal Ab                      | S                        | 0.3                   | IFA          | 15 days      | 5 day at 2-8°c for longer time at -20°c  | at 2-8°c, -20°c | Not recommended             |                           |                                 |
| 52 | Anti Paternal cytotoxic Antibody APCA | Female:(S)<br>Male:WB(D) | Femal e:0.5<br>Male:5 | serology     | Daily        | 2 hrs at 2-8°c                           | at 2-8°c        | sample fresh                |                           |                                 |
| 53 | Anti Pemphigus Ab (IgG)               | S                        | 0.3                   | IFA          | 15 days      | 5 day at 2-8°c for longer time at -20°c  | at 2-8°c, -20°c | Not recommended             |                           |                                 |
| 54 | Anti Phospholipid Ab (IgG)            | S, PH                    | 0.5                   | Elisa        | Daily        | 7 days at 2-8°c for longer time at -20°c | at 2-8°c, -20°c |                             | hemolysis,icteric,lipemic | Be separated quickly            |

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| 55 | Anti Phospholipid Ab (IgM)      | S, PH       | 0.5        | Elisa        | Daily        | 3 days at 2-8°c, for longer time at -20°c | at 2-8°c, -20°c |                             | hemolysis,icteric,lipemic                           | Be separated quickly |
| 56 | Anti Platelet Ab                | S           | 0.3        | IFA          | 15 days      | 5 day at 2-8°c for longer time at -20°c   | at 2-8°c, -20°c | Not recommended             |   |                      |
| 57 | Anti RNP Ab                     | S           | 0.3        | Elisa        | 15 days      | 7 day at 2-8°c for longer time at -20°c   | at 2-8°c, -20°c | Not recommended             |   |                      |
| 58 | Anti SCL- 70 Ab (Topoisomerase) | S           | 0.5        | IF           | sun&Tue      | 1 week at 2-8°c for longer time at -20°c  | at 2-8°c        |                             | hemolysis,icteric,lipemic                           |                      |
| 59 | Anti SLA                        | S           | 2ml        | IB           | Daily        | 1 week at 2-8°c for longer time at -20°c  | at 2-8°c        | Not recommended             |   |                      |
| 60 | Anti smith Ab                   | S           | 2          | IB           | 15 days      | 1 week at 2-8°c for longer time at -20°c  | at 2-8°c        | Not recommended             | Hemolysis, Frozen,Clotting, Incorrect anticoagulant |                      |
| 61 | Anti sperm Ab                   | S           | 0.4        | IFA          | 15 days      | 5 day at 2-8°c for longer time at -20°c   | at 2-8°c, -20°c | Not recommended             |   |                      |
| 62 | Anti SSA (Ro) Ab                | S           | 0.5        | Elisa        | sun&Tue      | 1 week at 2-8°c for longer time at -20°c  | at 2-8°c, -20°c | Not recommended             | hemolysis,icteric,lipemic                           |                      |
| 63 | Anti SSB (La) Ab                | S           | 0.5        | Elisa        | sun&Tue      | 1 week at 2-8°c for longer time at -20°c  | at 2-8°c, -20°c | Not recommended             | hemolysis,icteric,lipemic                           |                      |
| 64 | Anti Thyroglobulin Ab           | S, PE       | 0.5        | ECLIA        | Daily        | 7 day at 2-8°c for longer time at -20°c   | at 2-8°c, -20°c | Not recommended             | hemolysis,icteric,lipemic                           |                      |

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| 65 | Antithrombin III             | PC                                  | 0.5        | Photometric   | Daily        | 4 hours at 2-8°c or longer time at -20°c                                    | at 2-8°c, -20°c | Not recommended                                      | hemolysis                        | avoid repeat freeze/thaw cycles be seperated quickly/2 times centrifugation is preferred |
| 66 | APO A1                       | S, PE, PH                           | 0.4        | imm.turb      | 15 days      | 7 day at 2-8°c for longer time at -20°c                                     | at 2-8°c, -20°c | fasting  | hemolysis,icteric,lipemic        | avoid repeat freeze/thaw cycles  |
| 67 | APO B                        | S, PE, PH                           | 0.4        | imm.turb      | 15 days      | 7 day at 2-8°c for longer time at -20°c                                     | at 2-8°c, -20°c | fasting  | hemolysis,icteric,lipemic        | avoid repeat freeze/thaw cycles  |
| 68 | APTT                         | PC                                  | 0.5        | Coagulation   | Daily        | at 0-4°c 1 hr.,<br>2 w. at -20°c,<br>6 m.<br>at -70 °c                      | at 2-8°c, -20°c | notice use of argatroban,heparin,heroin              | hemolysis,icteric,lipemic        | Be separated quickly   |
| 69 | ASCA (IgG)                   | S, PE, PH                           | 0.5        | Elisa         | Daily        | 7 days at 2-8°c for longer time at -20°                                     | at 2-8°c, -20°c | Not recommended                                      | hemolysis,icteric,lipemic        | centrifuge 1000 RPM 10 min   |
| 70 | Ascitic fluid culture        | Ascitic fluid                       | 10         | Aerobic       | Daily        | 2 hrs. at 2-8°c   | at 2-8°c        | avoid using anti biotic                              |                                  |  |
| 71 | ASO                          | S                                   | 0.5        | Agglutination | Daily        | 7 days at 2-8°c for longer time at -20°c                                    | at 2-8°c, -20°c | Not recommended                                      | hemolysis,icteric,lipemic        | Transfer samples to be frozen  |
| 72 | B2 microglobuline            | S, PE, PH, U, CSF                   | 0.5        | Elisa         | Sat & wed    | 3 days at 2-8°c for longer time at -20°c U: 2 Months & CSF 2 Weeks at -20°c | at 2-8°c, -20°c | Not recommended                                      | hemolysis,icteric,lipemic        | avoid repeat freeze/thaw cycles  |
| 73 | B2 transferrin (CSF Leahage) | S & discharge from the nose or ears | 1&1        | IEF           | 15 days      | 4 hrs at RT 3 days at 2-8°c   | at 2-8°c        | avoid freezing/both samples are required for testing | both samples are not sent,frozen | Transfer samples to be frozen  |



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| 74 | BCR/ABL (P190)<br>PCR-ALL | See table   | See table             | PCR          | 7 days        | 1 day at 2-8°c  | at 2-8°c                    | Not recommended  | hemolysis,frozen,clottig,inc orrect anticoagulant                          |                                 |
| 75 | BCR/ABL (P210)<br>PCR-CML | See table   | See table             | PCR          | 7 days        | 1 day at 2-8°c  | at 2-8°c                    | Not recommended  | hemolysis,frozen,clottig,inc orrect anticoagulant                          |                                 |
| 76 | Bence jones Protein       | U(24&R)     | 10                    | Chemical     | Daily         | 7 day at 2-8°c for longer time at -20°c                           | at 2-8°c, -20°c             |  |  |                                 |
| 77 | Beta Crosslap             | S, PE       | 0.5                   | Elisa        | 14 days       | 8 days at 2-8°c<br>14 days at -20°c                               | at 2-8°c, -20°c             | Not recommended  | hemolysis,frozen,clottig,inc orrect anticoagulant                          |                                 |
| 78 | BhCG                      | S, PH, PE   | 0.5                   | ECLIA        | Daily         | 7 day at 2-8°c for longer time at -20°c                           | at 2-8°c, -20°c             | Abostain using of chlorpromazine few days prior test(flase positive) | hemolysis,frozen,clottig,inc orrect anticoagulant                          | avoid reepad freeze/thaw cycles |
| 79 | Bilirubin                 | S, PE       | 0.5                   | Photometric  | Daily         | 1 week at 2-8°c, 3 months at -20°c, dark place                    | at 2-8°c, -20°c, Dark place | Notic to using Of hepatotoxic drugs                                  | hemolysis,frozen,clottig,inc orrect anticoagulant                          | avoid reepad freeze/thaw cycles |
| 80 | Bleeding time (BT)        | WB          | 0.2                   | Coagulation  | Daily         | at Time   | at Time                     | Avoid using of anticoagulant drugs                                   |  |                                 |
| 81 | Blood culture             | WB          | 10% of culture medium | Aerobic      | Daily+14 days | The same time Transport at 37°c                                   | at 37°c                     | avoid using anti biotic  |  |                                 |
| 82 | Blood group & RH          | WB(E)&S     | 1,0.5                 | Hemagglu.    | Daily         | 12 hours at RT , 1 weeks at 2-8°c                                 | at RT, at 2-8°c             | Not recommended  | hemolysis,frozen,clottig,inc orrect anticoagulant                          |                                 |
| 83 | BNP                       | S, PE       | 0.5                   | ECLIA        | Daily         | Stable for 3 days at 20-25°c, 6 days at 2-8°c, 24 months at -20°c | at 2-8°c, -20°c             |  | The assay is unaffected by icterus (bilirubin < 428 μmol/L or < 25 mg/dL), |                                 |

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| 84 | Borellia parasite     | WB(E)          | 1          | Giemsa stain | 7 days       | 24 hrs RT 7 days at 2-8° c                 | at 2-8° c         | Not recommended             |   |                                 |
| 85 | Borellia.G            | S              | 2          | IB           | Daily        | 1 week at 2-8° c for longer time at -20° c | at 2-8° c, -20° c | hemolysis,icteric           | avoid repeated freeze/thaw cycles                       |                                 |
| 86 | Borellia.M            | S              | 2          | IB           | Daily        | 1 week at 2-8° c for longer time at -20° c | at 2-8° c, -20° c | hemolysis,icteric           | avoid repeated freeze/thaw cycles                       |                                 |
| 87 | Bronchia dis. culture | Bronchia dis.  | 5          | Aerobic      | Daily        | 2 hrs. at 2-8° c                           | at 2-8° c         |                             |   |                                 |
| 88 | Brucella Ab (IgG)     | S, PE, PC, CSF | 0.5        | Elisa        | mon&Thu      | 2 days at 2-8° c for longer time at -20° c | at 2-8° c, -20° c | Not recommended             | hemolysis,icteric,lipemic                               | avoid repeat freeze/thaw cycles |
| 89 | Brucella Ab (IgM)     | S, PE, PC, CSF | 0.5        | Elisa        | mon&Thu      | 2 days at 2-8° c for longer time at -20° c | at 2-8° c, -20° c | Not recommended             | hemolysis,icteric,lipemic                               | avoid repeat freeze/thaw cycles |
| 90 | Brucella PCR          | See table      | See table  | PCR          | 7 days       | 1 week at 2-8° c for longer time at -20° c | at 2-8° c         | Not recommended             | incorrect anti coagulant(heparin),clot sample,hemolysis |                                 |
| 91 | Buprenor (drug abuse) | WB, BF         | 2,5        | TLC          | by contact   | 4 days at 2-8° c Ur.: 1 months at -20° c   | at 2-8° c, -20° c |                             |   |                                 |
| 92 | C1 Inhibitor          | S              | 0.3        | Elisa        | 15 days      | 2 days at 2-8° c 3 Weeks at -20° c         | at 2-8° c, -20° c | fasting is recommended      | hemolysis,icteric,lipemic                               | avoid repeat freeze/thaw cycles |
| 93 | C1q                   | S              | 0.5        | Elisa        | 15 days      | 1 week at 2-8° c for longer time at -20° c | at 2-8° c, -20° c | Fasting is recommended      |   |                                 |

| NO  | Test name  | Sample type | S.Vol (ml) | Assay method  | Testing date | Storage                                 | Transport       | Preparation before sampling                      | Reject                    | Others  |
|-----|------------|-------------|------------|---------------|--------------|---|-----------------|--|---------------------------|---|
| 94  | C3         | S, PE, PH   | 0.5        | CLIA          | Daily        | 8 days at 2-8°c 30 days at -20°c        | at 2-8°c, -20°c | Not recommended                                  | hemolysis,icteric,lipemic | avoid reapead freeze/thaw cycles  |
| 95  | C4         | S, PE, PH   | 0.5        | CLIA          | Daily        | 8 days at 2-8°c 30 days at -20°c        | at 2-8°c, -20°c | Not recommended                                  | hemolysis,icteric,lipemic | avoid reapead freeze/thaw cycles  |
| 96  | CA 125     | S, PE, PH   | 0.5        | CLIA          | Daily        | 7 day at 2-8°c for longer time at -20°c | at 2-8°c, -20°c |  |                           |   |
| 97  | CA 15-3    | S, PE, PH   | 0.5        | CLIA          | Daily        | 7 day at 2-8°c for longer time at -20°c | at 2-8°c, -20°c |  |                           |   |
| 98  | CA 19-9    | S, PE, PH   | 0.5        | CLIA          | Daily        | 7 day at 2-8°c for longer time at -20°c | at 2-8°c, -20°c |  |                           | Transfer samples to be frozen   |
| 99  | CA-242     | S, PE, PH   | 0.5        | Elisa         | 15 days      | 7 day at 2-8°c for longer time at -20°c | at 2-8°c, -20°c | Not recommended                                  | hemolysis,icteric,lipemic | avoid reapead freeze/thaw cycles  |
| 100 | CA72-4     | S           | 0.5        | Elisa         | 15 days      | 7 day at 2-8°c for longer time at -20°c | at 2-8°c, -20°c | Not recommended                                  | hemolysis,icteric,lipemic |   |
| 101 | Calcitonin | S           | 0.5        | CLIA or Elisa | 15 days      | 5 days at 2-8°c Ur.:1 month at -20°c    | at 2-8°c, -20°c | fasting is recommended                           |                           | be separated quikly and transport on ice.refrigerated centrifuge must be used |
| 102 | Calcium    | S, BF, U    | 0.5,5      | Photometric   | Daily        | 7 day at 2-8°c for longer time at -20°c | at 2-8°c, -20°c | fasting is recommended,Avoid using of tourniquet | hemolysis,icteric,lipemic |   |

| NO  | Test name                        | Sample type | S.Vol (ml) | Assay method   | Testing date | Storage  | Transport       | Preparation before sampling | Reject   | Others   |
|-----|----------------------------------|-------------|------------|----------------|--------------|--|-----------------|-----------------------------|--|--|
| 103 | Carbamazepin (drug abuse)        | S           | 1          | HPLC           | Daily        | 7 days at 2-8°c<br>2 months at -20°c           | at 2-8°c, -20°c | Not recommended             | hemolysis  | Be separated quickly.avoid repeated freeze/thaw cycles |
| 104 | CBC                              | WB(E)       | 1          | Flow cytometry | Daily        | 12 hours at 20-25°c,<br>2 weeks at 2-8°c       | at 2-8°c        |                             |  |  |
| 105 | CD markers                       | WB(E)       | 2          | Flow cytometry | Daily        | 2days at RT                                    | at RT           | Not recommended             | hemolysis,icteric,lipemic.fr<br>ozen,cloting,incorrect anti<br>coagulant |  |
| 106 | CEA                              | S, PE, PH   | 0.5        | CLIA-ECLIA     | Daily        | 7 day at 2-8°c<br>for longer time<br>at -20°c  | at 2-8°c, -20°c |                             | hemolysis,icteric,lipemic  | Ice transferred  |
| 107 | Ceruloplasmin                    | S, PE, PH   | 0.5        | Chemical       | Daily        | 1 week at 2-8°c<br>for longer time<br>at -20°c | at 2-8°c, -20°c | Fasting is recommended      | hemolysis,icteric,lipemic  |  |
| 108 | CH50                             | S           | 0.5        | Elisa          | mon&Thu      | Rapidly<br>at -20°c                            | at -20°c        | Not recommended             | hemolysis,icteric,lipemic  | avoid repead<br>freeze/thaw cycles                     |
| 109 | Chlamydia.<br>Pneumoniae (IgG)   | S           | 0.5        | Elisa          | mon&Thu      | 7 day at 2-8°c,<br>one week<br>at -20°c        | at 2-8°c        |                             |  |  |
| 110 | Chlamydia<br>Pneumoniae<br>(IgM) | S           | 0.5        | Elisa          | mon&Thu      | 7 day at 2-8°c,<br>one week<br>at -20°c        | at 2-8°c        |                             |  |  |
| 111 | Chlamydia<br>Tracomatis<br>(IgG) | S           | 0.5        | Elisa          | Daily        | 7 day at 2-8°c,<br>one week<br>at -20°c        | at 2-8°c        |                             |  |  |
| 112 | Chlamydia<br>Tracomatis<br>(IgM) | S           | 0.5        | Elisa          | Daily        | 7 day at 2-8°c,<br>one week<br>at -20°c        | at 2-8°c        |                             |  |  |

| NO  | Test name          | Sample type                           | S.Vol (ml)   | Assay method          | Testing date            | Storage   | Transport  | Preparation before sampling                         | Reject  | Others                             |
|-----|--------------------|---------------------------------------|--------------|-----------------------|-------------------------|---|--|---|---|------------------------------------|
| 113 | Chloride           | U(R&24h)<br>(see table1)<br>S, PH, BF | 0.5-5        | Photometric           | Daily                   | 24 hr at RT,7<br>day at 2-8°c,<br>2 months<br>at -20°c                  | at 2-8°c, -20°c                                      | fasting is recommended,Avoid using of<br>tourniquet | hemolysis,icteric,lipemic   | avoid repeat<br>freeze/thaw cycles |
| 114 | Cholestrol         | S, PH, PE                             | 0.5          | Photometric           | Daily                   | 1 week at<br>2-8°c<br>for longer time<br>at -20°                        | at 2-8°c   | fasting is recommended,Avoid using of<br>tourniquet | hemolysis,icteric,lipemic   | avoid repeat<br>freeze/thaw cycles |
| 115 | Cholinesterase     | S, WB(E)                              | 0.3          | Photometric           | 15 days                 | serum: 7 days<br>at 2-8°c &3<br>Months at -20<br>WB: 3 days<br>at 2-8°c | serum<br>at 2-8°c, -20°c<br>WB: at 2-8°c             | Not recommended                                     | serum:hemolysis,Lipemic-<br>WB:Hemolusis,Clotting,fro<br>zen,incorrect anticoagulant  |                                    |
| 116 | CIC                | S                                     | 0.5          | Elisa                 | Sun<br>&wed             | 1 day at<br>2-8°c, 1 months<br>at -20°c                                 | at 2-8°c, -20°c                                      | fasting is recommended,Avoid using of<br>tourniquet |   |                                    |
| 117 | Citrate            | U(R&24h)<br>(see table 1 ) ph=5-7     | 10           | enzyme<br>colorimetry | mon&Thu<br>&wen&<br>thu | 1 week at 2-8°c<br>for longer time<br>at -20°c                          | at 2-8°c, -20°c                                      |   |   |                                    |
| 118 | Clotting time (CT) | WB                                    |              | Tube method           | Daily                   |   | at RT  |   |   |                                    |
| 119 | CMV Ab (IgG)       | S, PE, PH                             | 0.5          | CLIA                  | mon&Thu                 | 1 week<br>at 2-8°c<br>for longer time<br>at -20°                        | at 2-8°c, -20°c                                      |   | hemolysis,icteric,lipemic   | avoid repeat<br>freeze/thaw cycles |
| 120 | CMV Ab (IgM)       | S, PE, PH                             | 0.5          | CLIA                  | mon&Thu                 | 1 week at<br>2-8°c<br>for longer time<br>at -20°                        | at 2-8°c, -20°c                                      |   | hemolysis,icteric,lipemic   | avoid repeat<br>freeze/thaw cycles |
| 121 | CMV Ag (pp65)      | WB                                    | 3Vial        | DIF                   | Daily                   | 6 hrs at RT   | 4 hrs at RT  | Not recommended                                     | Hemolysis,Clotting,<br>Incorrect anticoagulant  |                                    |
| 122 | CMV PCR            | See table                             | See<br>table | PCR                   | 2 days                  | 8 hrs. at RT,3<br>days at 2-8°c,<br>5 months<br>at -20°c                | Tissue:frozen,<br>Others:<br>at 2-8°c<br>(preferred) | Not recommended                                     | incorrect anti<br>coagulant(heparin),formaliniz<br>ed fluids,tissue (formalin<br>Fixes),calcium-alginate<br>tipped,wood and gel media<br>swab |                                    |

| NO  | Test name                 | Sample type   | S.Vol (ml) | Assay method     | Testing date   | Storage                                | Transport       | Preparation before sampling | Reject                     | Others                        |
|-----|---------------------------|---------------|------------|------------------|----------------|--|-----------------|-----------------------------|----------------------------|-------------------------------|
| 123 | CMV PCR (quantitative)    | See table 2   | 2 vial     | Real time        | 15 days        | See table 2                            | at 2-8°c, -20°c | Not recommended             |                            |                               |
| 124 | Coagulation factors       | PC            | 1          | Coagulation      | 7 days         | 6hrs RT, 14 days at -20°c              | at -20°c        |                             |                            | Be separated quickly          |
| 125 | Cocaine (drug abuse)      | WB, BF        | 2,5        | TLC              | Daily          | 4 days at 2-8°c Ur.: 1 months at -20°c | at 2-8°c, -20°c |                             |                            |                               |
| 126 | Codeine (drug abuse)      | WB, BF        | 2,5        | TLC              | Daily          | 4 days at 2-8°c Ur.: 1 months at -20°c | at 2-8°c, -20°c |                             |                            |                               |
| 127 | Cold Agglutinine          | S             | 0.5        | Agglutination    | Daily          | 1 day at 2-8°c                         | at 2-8°c        |                             |                            | Transfer samples to be frozen |
| 128 | Colestridium              | St            | 1.0 gr     | Elisa            | Daily          | 2 days at 2-8°c for 1 months at -20°c  | at RT           |                             |                            |                               |
| 129 | consult & block pathology | Block & Slide |            |                  | Daily + 8 days | Minimum 15 years after fixation        | at RT           |                             |                            |                               |
| 130 | Coombs (direct)           | WB(E)         | 0.5        | Hemagglutination | Daily          | 5 day at 2-8°c                         | at 2-8°c        |                             | Hemolysis                  |                               |
| 131 | Coombs Wright             | S             | 1          | Agglutination    | Daily          | 1 day at 2-8°c, 1 week at -20°c        | at 2-8°c, -20°c |                             | Hemolysis, Clottig, Frozen | Transfer samples to be frozen |
| 132 | Coombs (Indirect)         | S, BF         | 0.5        | Hemagglutination | Daily          | 5 day at 2-8°c, 1 months at -20°c      | at 2-8°c, -20°c |                             | Hemolysis                  |                               |

| NO  | Test name    | Sample type            | S.Vol (ml) | Assay method          | Testing date | Storage   | Transport       | Preparation before sampling                                       | Reject                     | Others   |
|-----|--------------|------------------------|------------|-----------------------|--------------|---|-----------------|---|----------------------------|--|
| 133 | Copper       | S, PE, U:10            | 0.5,10     | Atomic abs.& chemical | Daily        | Refrigerated (preferred)14 days,Ambient 14 days, Frozen 14 days | at 2-8°c, -20°c |   |                            |  |
| 134 | Copper urine | U(R&24h) (see table 1) | 5          | Atomic abs.& chemical | 15 days      | 7 days at 2-8°c 3 months at -20°c- Ur.: 1 months at -20°c       | at 2-8°c, -20°c | avoid Using Spironolacton,quinacrine,.....&Abstain stress         | hemolysis,icteric,lipemic  | sampling time between 6-8 am   |
| 135 | Cortisol     | S                      | 0.5        | CLIA-ECLIA            | Daily        | 7 days at 2-8°c, 3 months at -20°                               | at 2-8°c, -20°c | Avoid using of spironolacton,quinacrine, .... Abstain stress,.... | Hemolysis, Icteric,Lipemic | sampling time between 6-8 am.  |
| 136 | CPK          | S, BF                  | 0.5        | Colorimetry           | Daily        | 7 days at 2-8°c , 1 months at -20°c (dark place)                | at 2-8°c, -20°c | Avoid heavy physical activity prior test.                         |                            |  |
| 137 | C-peptide    | S, PE                  | 0.5        | CLIA-ECLIA            | Daily        | 7 days at 2-8°c, 1month at -20°c                                | at -20°c        | Fasting   | Hemolysis, Icteric,Lipemic | be separated quickly and transport on ice.refrigerated centrifuge must be used,avoid repeated freeze/thaw cycles |
| 138 | CPK-MB       | S, PH                  | 0.5        | Photometric           | Daily        | 1 day at 2-8°c (dark place), 4 week at -20°c                    | at 2-8°c, -20°c | Avoid heavy physical activity prior test.                         | Hemolysis, Icteric,Lipemic | avoid repeated freeze/thaw cycles  |
| 139 | Creatinine   | S                      | 0.5        | Colorimetry           | Daily        | 1 week at 2-8°c for longer time at -20°                         | at 2-8°c, -20°c |   |                            |  |

| NO  | Test name            | Sample type                 | S.Vol (ml) | Assay method  | Testing date   | Storage   | Transport       | Preparation before sampling                                       | Reject   | Others                            |
|-----|----------------------|-----------------------------|------------|---------------|----------------|---|-----------------|---|--|-----------------------------------|
| 140 | Creatinine clearance | S & U(R&24h)<br>(see table) | 0.5        | Colorimetry   | Daily          | 7 days at 2-8°c,<br>3 months at -20°                        | at 2-8°c, -20°c | Avoid using of nephrotoxic drugs.                                 |  | avoid repeated freeze/thaw cycles |
| 141 | CRP                  | S,BF                        | 0.5        | Imm.turb.     | Daily          | 1 week at 2-8°c<br>for longer time at -20°                  | at 2-8°c, -20°c |   |  |                                   |
| 142 | CRP high sensitive   | S                           | 0.2        | Imm.turb.     | 15 days        | 7 days at 2-8°c<br>3 month at -20°c                         | at 2-8°c, -20°c | Not recommended   | hemolysis,icteric,lipemic  | avoid repeat freeze/thaw cycles   |
| 143 | Cryoglobuline        | WB                          | 0.5        | Percipitation | Sun&wens       | 1 hr.at RT  | at RT           | Fasting   |  |                                   |
| 144 | CSF Culture          | CSF                         | 1          | Aerobic & An  | Daily + 8 days | The same time must be tested                                | at RT           | Abstain using antibiotic ,<br>Second tube sampling is appropriate |  |                                   |
| 145 | CSF electrophoresis  | CSF                         | 0.5        | SDS page      | 15 days        | 7 days at 2-8°c,<br>3 months at -20°c                       | at 2-8°c, -20°c |   |  |                                   |
| 146 | CSF IgG              | CSF                         | 0.5        | Imm.turb.     | 15 days        | 1 week at 2-8°c<br>for longer time at -20°c                 | at 2-8°c, -20°c |   |  |                                   |
| 147 | Cyclosporine         | WB(E)                       | 1          | CLIA          | Daily          | 1 day at 2-8°c<br>for longer time at -20°c                  | at 2-8°c, -20°c |   | Hemolysis,<br>Icteric,Lipemic  |                                   |
| 148 | Cyclosporine 2h      | WB(E)                       | 1          | Chemical TLC  | Daily          | 1 day at 2-8°c<br>for longer time at -20°c                  | at 2-8°c, -20°c |   | Hemolysis,<br>Icteric,Lipemic  |                                   |
| 149 | Cystatine C          | S, PE                       | 0.5        | Photometric   | 15 days        | Refrigerated (preferred)7 days,Ambient 7 days,Frozen 7 days | at 2-8°c, -20°c | Not recommended   | Lipemic or frozen specimens, which become turbid after thawing, may interfere with the assay | avoid repeated freeze/thaw cycles |



| NO  | Test name                         | Sample type   | S.Vol (ml) | Assay method          | Testing date | Storage   | Transport                     | Preparation before sampling                                 | Reject                    | Others   |
|-----|-----------------------------------|---|------------|-----------------------|--------------|---|-------------------------------|---|---------------------------|--|
| 150 | Cystine                           | U (see table 1 )  | 0.5        | TLCchemical           | Daily        | 1 month at -20°c<br>CRITICAL FROZEN                   | at -20°c                      | Avoid using of penicillinamine few days prior to collection |                           |  |
| 151 | Cytology                          | BF,U (formalin added)<br>Formalin 10% (10% solution vol.) |            | Papanicolaou staining | 8 days       | 2 days at 2-8°c<br>prepared slide, 3 months at RT.    | Fluid at 2-8°c<br>slide at RT | Not recommended   |                           |  |
| 152 | D-dimer                           | PC  | 0.5        | imm.turb              | Daily        | 8 hrs at 2-8°c,<br>1 months at -20°c                  | at 2-8°c, -20°c               |   |                           | Be separated quickly-centrifuge at 1500 rpm 15 min   |
| 153 | DHEA                              | S, PE, PH   | 0.5        | CLIA-ECLIA            | Daily        | 7 days at 2-8°c,<br>2 months at -20°c                 | at 2-8°c, -20°c               |   | hemolysis,icteric,lipemic | Be separated quickly-avoid repeated freeze/thaw cycles   |
| 154 | Delta aminolevulinic acid (D-ALA) | U(24h&R) (see table 3)                                    | 10         | Chemical              | Daily        | 4 days at 2-8°c,<br>1 months at -20°c,<br>dark place. | at 2-8°c, -20°c               | Not recommended   |                           | Increased ALA concentration is associated with exposure to alcohol, lead, and a variety of other agents. Massive elevation of ALA occurs in the acute porphyrias and hereditary tyrosinemia. |

| NO  | Test name                    | Sample type          | S.Vol (ml) | Assay method | Testing date | Storage                                   | Transport       | Preparation before sampling   | Reject   | Others   |
|-----|------------------------------|----------------------|------------|--------------|--------------|---|-----------------|---|--|--|
| 155 | DHEA SO4                     | S, PE, PH            | 0.5        | CLIA-ECLIA   | Daily        | 7 days at 2-8°c,<br>2 months at -20°c     | at 2-8°c, -20°c |   | hemolysis,icteric,lipemic  | Be separated quickly-avoid repeated freeze/thaw cycles |
| 156 | Diazepam                     | S                    | 1          | HPLC         | by contact   | 7 days at 2-8°c,<br>3 months at -20°c     | at 2-8°c, -20°c | Not recommended   |  |  |
| 157 | Dicyclamine (drug abuse)     | WB, BF               | 2,5        | TLC          | by contact   | 4 days at 2-8°c Ur.:<br>1 months at -20°c | at 2-8°c, -20°c |   |  |  |
| 158 | Digoxin                      | S                    | 0.5        | Elisa        | Daily        | 7 days at 2-8°c,<br>3 months at -20°c     | at 2-8°c, -20°c | Abstain using of neomycin,spironolactone ... 7 days prior to collection | Hemolysis, Icteric,Lipemic   | avoid repeated freeze/thaw cycles                      |
| 159 | Dihydrotestosterone (DHT)    | S                    | 0.5        | Elisa        | Tue          | 3 hrs at 2-8°c,<br>1 month at -20°c       | at 2-8°c, -20°c |   |  |  |
| 160 | Diphenhydramine (drug abuse) | WB, BF               | 2,5        | TLC          | by contact   | 4 days at 2-8°c Ur.:<br>1 months at -20°c | at 2-8°c, -20°c |   |  |  |
| 161 | Diphenoxylate (drug abuse)   | WB, BF               | 2,5        | TLC          | by contact   | 4 days at 2-8°c Ur.:<br>1 months at -20°c | at 2-8°c, -20°c |   |  |  |
| 162 | Dipridamole (drug abuse)     | WB, BF               | 2,5        | TLC          | by contact   | 4 days at 2-8°c Ur.:<br>1 months at -20°c | at 2-8°c, -20°c |   |  |  |
| 163 | Ditiazem (drug abuse)        | WB, BF               | 2,5        | TLC          | by contact   | 4 days at 2-8°c Ur.:<br>1 months at -20°c | at 2-8°c, -20°c |   |  |  |
| 164 | Dopamine                     | U(24h&R) (see table) | 5          | HPLC         | by contact   | 7 days at 2-8°c,<br>1 months at -20°c     | at 2-8°c, -20°c | Not recommended   | Patient Prep: Abstain from medications for 72 hours prior to collection. |  |

| NO  | Test name                      | Sample type                                 | S.Vol (ml) | Assay method                 | Testing date   | Storage  | Transport       | Preparation before sampling | Reject                             | Others                            |
|-----|--------------------------------|---|------------|------------------------------|----------------|--|-----------------|-----------------------------|------------------------------------|-----------------------------------|
| 165 | Doxaine (drug abuse)           | WB, BF                                      | 2,5        | TLC                          | by contact     | 4 days at 2-8°c Ur.: 1 months at -20°c           | at 2-8°c, -20°c |                             |                                    |                                   |
| 166 | Droperidol (drug abuse)        | WB, BF                                      | 2,5        | TLC                          | by contact     | 4 days at 2-8°c Ur.: 1 months at -20°c           | at 2-8°c, -20°c |                             |                                    |                                   |
| 167 | Dysmorphic RBC                 | Ur.Ran x3 samples interval half to one hour | 10         | Phase contrast microscope    | Daily          | Rapidly must be analysed                         |                 | Not recommended             |                                    |                                   |
| 168 | Ear dis. culture               | Ear dis.                                    |            | Aerobic                      | Daily + 8 days | The same time must be tested                     | at RT           | Avoid using antibiotic      |                                    |                                   |
| 169 | EBV Ab (IgG)                   | S, PE, PH, PC, BF, CSF                      | 0.5        | CLIA                         | mon&Thu        | 7 days at 2-8°c, 3 months at -20°                | at 2-8°c, -20°c |                             | Hemolysis, Icteric, Lipemic        | avoid repeated freeze/thaw cycles |
| 170 | EBV Ab (IgM)                   | S, PE, PH, PC, BF, CSF                      | 0.5        | CLIA                         | mon&Thu        | 7 days at 2-8°c, 3 months at -20°                | at 2-8°c, -20°c |                             | Hemolysis, Icteric, Lipemic        | avoid repeated freeze/thaw cycles |
| 171 | EBV PCR                        | See table                                   | See table  | PCR                          | 10 days        | 8 hrs. at RT, 3 days at 2-8°c, 5 months at -20°c | at 2-8°c        | Not recommended             | incorrect anti coagulant (heparin) |                                   |
| 172 | Enalapril (drug abuse)         | WB, BF                                      | 2,5        | TLC                          | by contact     | 4 days at 2-8°c Ur.: 1 months at -20°c           | at 2-8°c, -20°c |                             |                                    |                                   |
| 173 | Entamoeba histolytica Ab (IgG) | S   | 0.3        | Elisa                        | 15 days        | 7 days at 2-8°c 3 months at -20°c                | at 2-8°c, -20°c | Not recommended             | hemolysis, icteric, lipemic        |                                   |
| 174 | Eosinophil count               | WB  | 1          | Direct smear giemsa staining | Daily          | 1 day at 25°c, 6 days at 4°c                     | at 2-8°c        | Not recommended             |                                    |                                   |

| NO  | Test name                   | Sample type          | S.Vol (ml) | Assay method | Testing date | Storage                                | Transport          | Preparation before sampling   | Reject                      | Others  |
|-----|-----------------------------|----------------------|------------|--------------|--------------|--|--------------------|---|-----------------------------|---|
| 175 | Ephedrine (drug abuse)      | WB, BF               | 2,5        | TLC          | by contact   | 4 days at 2-8°c Ur.: 1 months at -20°c | at 2-8°c, -20°c    |   |                             |   |
| 176 | Epinephrine                 | U(24h&R) (see table) | 5          | Elisa        | mon          | 7 days at 2-8°c, 1 months at -20°c     | at 2-8°c, at -20°c | Abstain from emotional and mental stress, medications for 3 days prior to collection. |                             |   |
| 177 | Erythropoietin (EPO)        | S                    | 0.5        | Elisa        | 15 days      | 7 days at 2-8°c 3 months at -20°c      | at 2-8°c, -20°c    | Not recommended   | hemolysis, icteric, lipemic | avoid repeat freeze/thaw cycles                         |
| 178 | Ecstasy (MDAM) (drug abuse) | WB, BF               | 2,5        | TLC          | by contact   | 4 days at 2-8°c Ur.: 1 months at -20°c | at 2-8°c, -20°c    |   |                             |   |
| 179 | ESR                         | WB                   | 2          | Automation   | Daily        | 1 hr. at 2-8°c                         | at 2-8°c           |   |                             |   |
| 180 | Estradiol                   | S                    | 0.5        | CLIA         | Daily        | 1 day at 2-8°c 2 months at -20°c       | at 2-8°c, -20°c    | Fasting   | Hemolysis, Icteric, Lipemic | avoid repeated freeze/thaw cycles                       |
| 181 | Ethambutol (drug abuse)     | WB, BF               | 2,5        | TLC          | by contact   | 4 days at 2-8°c Ur.: 1 months at -20°c | at 2-8°c, -20°c    |   |                             |   |
| 182 | Ethanol (drug abuse)        | WB, BF               | 2,5        | HPLC         | by contact   | 4 days at 2-8°c Ur.: 1 months at -20°c | at 2-8°c, -20°c    |   |                             |   |
| 183 | Ethosuximide (drug abuse)   | S                    | 1          | HPLC         | Mon&thu      | 7 days at 2-8°c, 1 months at -20°c     | at 2-8°c, -20°c    | Not recommended   | hemolysis                   | Be separated quickly. avoid repeated freeze/thaw cycles |
| 184 | Everolimus                  | WB                   | 2          | TLC          | by contact   | 4 days at 2-8°c Ur.: 1 months at -20°c | at 2-8°c, -20°c    |   |                             |   |

| NO  | Test name                | Sample type | S.Vol (ml) | Assay method    | Testing date | Storage   | Transport       | Preparation before sampling                    | Reject   | Others   |
|-----|--------------------------|-------------|------------|-----------------|--------------|---|-----------------|--|--|--|
| 185 | Eye dis. culture         | Eye dis.    |            | Aerobic culture | Daily        | The same time must be tested                      | at RT           | Avoid using antibiotic                         |  |  |
| 186 | F.V Leiden(APCR)         | PC          | 1          | Coagulation     | 15 days      | 2hrs at RT-14 days at -20                         | at 2-8°c, -20°c | Not recommended                                | hemolysis ,frozen,clotting,incorrect anticoagulant |  |
| 187 | Factor II (G20210A)      | See table   | See table  | PCR             | 15 days      | 21 days. at RT-7 days at 2-8°c, 3 months at -20°c | at 2-8°c        | Not recommended                                | hemolysis,frozen,clottig,incorrect anticoagulant   |  |
| 188 | Fasciola Ab (IgG)        | S           | 0.3        | Elisa           | 15 days      | 2 day at 2-8°c for longer time at -20°c           | at 2-8°c, -20°c | Not recommended                                | hemolysis,icteric,lipemic                          | avoid repeat freeze/thaw cycles                        |
| 189 | FDP                      | PC          | 0.5        | imm.turb        | Daily        | 8hours at 20-25°c , one month at -20°c            | at 2-8°c, -20°c | Not recommended                                | Hemolysis, Icteric,Lipemic                         | Be separated quickly-Centrifuge 2000-2500 rpm at 15min |
| 190 | Fentanyl (drug abuse)    | WB, BF      | 2,5        | TLC             | Daily        | 4 days at 2-8°c Ur.: 1 months at -20°c            | at 2-8°c, -20°c |  |  |  |
| 191 | Ferritin                 | S           | 0.5        | CLIA-ECLIA      | Daily        | 4 hrs at RT, 2 days at 2-8°c 3 months at -20°     | at 2-8°c, -20°c | avoid using of iron 7 days prior to collection | Hemolysis, Icteric,Lipemic                         | avoid repeated freeze/thaw cycles                      |
| 192 | Fibrinogen               | PC          | 0.5        | Coagulation     | Daily        | 2 hrs at RT, 1 day at 2-8°c, 1 months at -20°c    | at 2-8°c, -20°c | Not recommended                                | Hemolysis, Icteric,Lipemic                         | Be separated quickly                                   |
| 193 | Flufenazine (drug abuse) | WB, BF      | 2,5        | TLC             | by contact   | 4 days at 2-8°c Ur.: 1 months at -20°c            | at 2-8°c, -20°c |  |  |  |
| 194 | Fluid analysis           | BF          | 5          | Direct smear    | Daily        | The same time must be tested                      | at RT<1hr       | Not recommended                                |  |  |

| NO  | Test name                    | Sample type            | S.Vol (ml)             | Assay method          | Testing date | Storage   | Transport         | Preparation before sampling | Reject  | Others   |
|-----|------------------------------|------------------------|------------------------|-----------------------|--------------|---|-------------------|-----------------------------|---|--|
| 195 | Fluoxetine (drug abuse)      | WB, BF                 | 2,5                    | TLC                   | by contact   | 4 days at 2-8° c Ur.: 1 months at -20° c  | at 2-8° c, -20° c |                             |   |  |
| 196 | Flupenthixol (drug abuse)    | WB, BF                 | 2,5                    | TLC                   | by contact   | 4 days at 2-8° c Ur.: 1 months at -20° c  | at 2-8° c, -20° c |                             |   |  |
| 197 | Flurazepam (drug abuse)      | WB, BF                 | 2,5                    | TLC                   | by contact   | 4 days at 2-8° c Ur.: 1 months at -20° c  | at 2-8° c, -20° c |                             |   |  |
| 198 | Fluvoxamine (drug abuse)     | WB, BF                 | 2,5                    | TLC                   | by contact   | 4 days at 2-8° c Ur.: 1 months at -20° c  | at 2-8° c, -20° c |                             |   |  |
| 199 | FNA (fine niddle aspiration) | Asp. Fluid             | 1 ml fluid or 3 slides | Papanicolaou staining | 8 days       | after fixation 3 months for prepared slides at RT.  | at RT             | Not recommended             |   | Slides should be prepared at the same time and dried in air and fixed          |
| 200 | Folic acid                   | S, PH                  | 0.5                    | ECLIA                 | Daily        | 4 hrs. at RT, 2days at 2-8 c, 3 month at -20° c out of light, WB must be treated same time and store at -20° c. | at 2-8° c, -20° c | Fasting                     | S: Hemolysis, Icteric,Lipemic<br>WB: Frozen,Clotting, Incorrect anticoagulant | avoid repeated freeze/thaw cycles  |
| 201 | Free BhCG                    | S                      | 0.5                    | CLIA-ECLIA            | Daily        | 4 hrs. at RT, 2 days at 2-8° c 2 months at -20° c   | at 2-8° c, -20° c | Not recommended             | Hemolysis   | cold chain compliance during transport.avoiding frozen samples after thawing . |
| 202 | Free cortisol                | U(R&24h) (see table 1) | 0.5                    | IFA-Elisa             | Sat          | 7 days at 2-8° c, 3 months at -20° c  | at 2-8° c, -20° c | Not recommended             |   |  |

| NO  | Test name         | Sample type | S.Vol (ml) | Assay method | Testing date          | Storage  | Transport       | Preparation before sampling                               | Reject                        | Others                               |
|-----|-------------------|-------------|------------|--------------|-----------------------|--|-----------------|---|-------------------------------|--------------------------------------|
| 203 | Free estriol      | S           | 0.5        | Elisa        | Daily                 | 8 hrs. at RT,<br>1 week at 2-8°c,<br>1 months<br>at -20°c    | at 2-8°c, -20°c |   | Hemolysis,<br>Icteric,Lipemic |                                      |
| 204 | Free kappa        | S, U        | 0.5,5      | Imm.turb.    | 15 days               | 7 days at<br>2-8°c,<br>1 months<br>at -20°c                  | at 2-8°c, -20°c |   |                               | avoid repeated<br>freeze/thaw cycles |
| 205 | Free lambda       | S, U        | 0.5,5      | Imm.turb.    | 15 days               | 7 days at<br>2-8°c,<br>1 months<br>at -20°c                  | at 2-8°c, -20°c |   | Hemolysis,<br>Icteric,Lipemic | avoid repeated<br>freeze/thaw cycles |
| 206 | Free PSA          | S           | 0.5        | CLIA-ECLIA   | Daily                 | 1 week at<br>2-8°c<br>for longer time<br>at -20°             | at 2-8°c, -20°c |   |                               |                                      |
| 207 | Free T3           | S, PE, PH   | 0.5        | CLIA-ECLIA   | odd days              | 7 days at<br>2-8°c ,<br>1 months<br>at -20°c                 | at 2-8°c, -20°c | Notice to drug<br>interference such as<br>Salicylates,... | Hemolysis,<br>Icteric,Lipemic | avoid repeated<br>freeze/thaw cycles |
| 208 | Free T4           | S, PE, PH   | 0.5        | CLIA-ECLIA   | odd days              | 7 days at<br>2-8°c ,<br>1 months<br>at -20°c                 | at 2-8°c, -20°c | Notice to drug<br>interference such as<br>Salicylates,... | Hemolysis,<br>Icteric,Lipemic | avoid repeated<br>freeze/thaw cycles |
| 209 | Free testosterone | S           | 0.5        | Elisa        | Sat &<br>mon &<br>wed | 8 hrs. at RT,<br>7 days at 2-8°c,<br>3 months<br>at -20°c    | at 2-8°c, -20°c |   | Hemolysis,<br>Icteric,Lipemic |                                      |
| 210 | Fructosamine      | S           | 0.5        | Chemical     | 15 days               | 2 days at RT,<br>7 days<br>at 2-8°c,<br>1 months<br>at -20°c | at 2-8°c, -20°c |   | Hemolysis,<br>Icteric,Lipemic |                                      |
| 211 | FSH               | S           | 0.5        | CLIA-ECLIA   | Daily                 | 7 days at<br>2-8°c,<br>3 months<br>at -20°                   | at 2-8°c, -20°c |   | Hemolysis,<br>Icteric,Lipemic | Be separated<br>quickly              |
| 212 | FTA Ab            | S           | 0.5        | IFA          | Mon & Wed             | 1 day at 2-8°c<br>for longer time<br>at -20°c                | at 2-8°c, -20°c | Fasting is recommended                                    | Hemolysis,<br>Icteric,Lipemic |                                      |

| NO  | Test name                  | Sample type          | S.Vol (ml) | Assay method    | Testing date | Storage                                  | Transport       | Preparation before sampling  | Reject   | Others  |
|-----|----------------------------|----------------------|------------|-----------------|--------------|--|-----------------|--|--|---|
| 213 | FTA Ab (abs)               | S                    | 0.5        | CLIA            | Sat & Tue    | 7 days at 2-8°C for longer time at -20°C | at 2-8°C, -20°C | Not recommended  | hemolysis, icteric, lipemic                          |   |
| 214 | Fungi Direct smear culture | Skin, scalp, BF, ... |            | Aerobic culture | Daily        | The same day must be analysis            |                 | Avoid using antibiotic & washing   |  |   |
| 215 | Furoside (drug abuse)      | WB, BF               | 2,5        | TLC             | by contact   | 4 days at 2-8°C Ur.: 1 months at -20°C   | at 2-8°C, -20°C |  |  |   |
| 216 | G6PD (quan.qual.)          | WB(E&H)              | 1          | Floures.chem.   | Daily        | 1 day at RT, 7 days at 2-8°C             | at 2-8°C        | Not recommended  | Hemolysis, Frozen, Clotting, Incorrect anticoagulant |   |
| 217 | Gabapantin (drug abuse)    | s                    | 1          | HPLC            | 15 days      | 7 days at 2-8°C 3 months at -20°C        | at 2-8°C, -20°C | Not recommended  |  |   |
| 218 | Galactomannan              | S, BAL               | 0.5        | Elisa           | 15 days      | 7 days at 2-8°C, 3 months at -20°C       | at 2-8°C, -20°C |  |  |   |
| 219 | Gamma GT                   | S                    | 0.5        | Photometric     | Daily        | 1 month at 4°C, 1 year at -20°C          | at 2-8°C        | Fasting is recommended. Avoid using OCP  |  |   |
| 220 | Gastrin                    | S, PH, PE            | 0.3        | Elisa RIA       | 15 days      | 5 hours at 2-8°C, 1 months at -20°C      | at 2-8°C, -20°C | Fasting. The patient is not exposed to radioactive material few days before test | hemolysis, icteric                                   | avoid repeated freeze/thaw cycles   |
| 221 | GCT                        | S                    | 0.5        | Photometric     | Daily        | 48 hours at 2-8°C                        | at 2-8°C        | Fasting  |  | 1 fasting blood sample and 1 blood sample after 1 hr. ingestion 50 gr. oral glucose |



| NO  | Test name                 | Sample type                         | S.Vol (ml) | Assay method | Testing date | Storage   | Transport       | Preparation before sampling                   | Reject                     | Others                            |
|-----|---------------------------|-------------------------------------|------------|--------------|--------------|---|-----------------|---|----------------------------|-----------------------------------|
| 222 | Glibenclamid (drug abuse) | WB, BF                              | 2,5        | TLC          | by contact   | 4 days at 2-8°c Ur.:<br>1 months at -20°c             | at 2-8°c, -20°c |   |                            |                                   |
| 223 | Glucose                   | S, PE, BF, U(R&24h),... (see table) | 0.5        | Photometric  | Daily        | 5 days at 2-8°c,<br>6 months at -20°c                 | at 2-8°c        | Fasting                                       |                            | avoid repeated freeze/thaw cycles |
| 224 | Growth hormon             | S                                   | 0.5        | Elisa        | sun& wed     | 2 days at 2-8°c,<br>2 months at -20°c                 | at 2-8°c, -20°c | Fasting , Avoid using Clonidine               |                            |                                   |
| 225 | H.Pylori (IgA)            | S                                   | 0.5        | CLIA-Elisa   | sun& wed     | 1 day at RT,<br>7 days at 2-8°c<br>6 months at -20°c  | at 2-8°c, -20°c |   | Hemolysis, Icteric,Lipemic | avoid repeated freeze/thaw cycles |
| 226 | H.Pylori (IgG)            | S                                   | 0.5        | CLIA-Elisa   | Daily        | 1 day at RT,<br>7 days at 2-8°c<br>6 months at -20°c  | at 2-8°c, -20°c |   | Hemolysis, Icteric,Lipemic | avoid repeated freeze/thaw cycles |
| 227 | H.Pylori (IgM)            | S                                   | 0.5        | CLIA-Elisa   | sun& wed     | 1 day at RT,<br>7 days at 2-8°c<br>6 months at -20°c  | at 2-8°c, -20°c |   | Hemolysis, Icteric,Lipemic | avoid repeated freeze/thaw cycles |
| 228 | H.pylori stool Ag         | Stool                               | 1 gram     | Elisa        | Daily        | days at 2-8°c for 1 months at -20°c                   | at 2-8°c, -20°c | Not recommended                               |                            |                                   |
| 229 | Haloperidol (drug abuse)  | WB, BF                              | 2,5        | TLC          | by contact   | 4 days at 2-8°c Ur.:<br>1 months at -20°c             | at 2-8°c, -20°c |   |                            |                                   |
| 230 | Hams test                 | WB, S                               | 1          | Hemolyse     | Daily        | 1 day at RT   | at RT           | Not recommended                               | Hemolysis, Icteric,Lipemic |                                   |
| 231 | Haptoglobin               | S                                   | 0.5        | Nephelometry | Daily        | 1 day at RT,<br>7 days at 2-8°c,<br>3 months at -20°c | at 2-8°c, -20°c | Notice use of androgen & sulfasalazine drugs. | Hemolysis                  |                                   |

| NO  | Test name          | Sample type   | S.Vol (ml) | Assay method  | Testing date | Storage  | Transport         | Preparation before sampling | Reject  | Others                        |
|-----|--------------------|---------------|------------|---------------|--------------|--|-------------------|-----------------------------|---|-------------------------------|
| 232 | HAV Ab (IgM)       | S, PE, PH     | 0.5        | CLIA          | Daily        | 7 days at 2-8° c,<br>3 months at -20° c        | at 2-8° c, -20° c |                             | Hemolysis   |                               |
| 233 | HAV Ab (Total)     | S, PE, PH     | 0.5        | CLIA          | Daily        | 7 days at 2-8° c,<br>3 months at -20° c        | at 2-8° c, -20° c |                             |   |                               |
| 234 | Hb A2              | WB            | 1          | Co.ch.&elec.. | Sat& Tue     | 7 days at 2-8° c                               | at 2-8° c         |                             | Hemolysis, Clotting,Frozen, Incorrect anticoagulant   |                               |
| 235 | Hb electrophoresis | WB            | 1          | capillary     | Sat&Tue      | 7 days at 2-8° c                               | at 2-8° c         | Not recommended             | Hemolysis, Clotting,Frozen, Incorrect anticoagulant   |                               |
| 236 | Hb F               | WB            | 1          | Chemical      | Sat& Tue     | 12 hours at 20-25° c,<br>1 week at 2-8° c      | at 2-8° c         |                             |   |                               |
| 237 | Hb A1c             | WB(E&H)       | 1          | Imm.turb.     | Daily        | 7 days at 2-8° c                               | at 2-8° c         | Not recommended             | Hemolysis, Clotting,Frozen, Incorrect anticoagulant   |                               |
| 238 | HBcAb (IgM)        | S, PE, PH, PC | 0.5        | ECLIA Elisa   | Daily        | 7 days at 2 - 8° c                             | at 2-8° c, -20° c | Not recommended             | <ul style="list-style-type: none"> <li>• heat-inactivated specimens&amp;• grossly hemolyzed specimens&amp;• specimens with obvious microbial contamination- Hemolysis, Lipemic</li> </ul> | Transfer samples to be frozen |
| 239 | HBcAb (Total)      | S, PE, PH, PC | 0.5        | ECLIA Elisa   | Daily        | 7 days at 2 - 8° c&>7 days at -20° c or colder | at 2-8° c, -20° c | Not recommended             | <ul style="list-style-type: none"> <li>• heat-inactivated specimens&amp;• hemolyzed specimens&amp;• body fluids other than human serum or plasma</li> </ul>                               | Transfer samples to be frozen |

| NO  | Test name             | Sample type   | S.Vol (ml) | Assay method | Testing date | Storage  | Transport       | Preparation before sampling | Reject  | Others                        |
|-----|-----------------------|---------------|------------|--------------|--------------|--|-----------------|-----------------------------|---|-------------------------------|
| 240 | HBeAb                 | S, PE, PH, PC | 0.5        | ECLIA Elisa  | Daily        | 7 days<br>2-8°c<br>& 3 days<br>at 15-30°c                            | at 2-8°c, -20°c | Not recommended             | <ul style="list-style-type: none"> <li>• heat-inactivated specimens&amp;• grossly hemolyzed specimens&amp;• specimens with obvious microbial contamination</li> </ul> | Transfer samples to be frozen |
| 241 | HBeAg                 | S, PE, PH, PC | 0.5        | ECLIA Elisa  | Daily        | 1 week at<br>2-8°c<br>for longer time<br>at -20°c                    | at 2-8°c, -20°c | Not recommended             | <ul style="list-style-type: none"> <li>• heat-inactivated specimens&amp;• grossly hemolyzed specimens&amp;• specimens with obvious microbial contamination</li> </ul> | Transfer samples to be frozen |
| 242 | HBsAb                 | S, PE, PH, PC | 0.5        | ECLIA Elisa  | Daily        | 1 week at<br>2-8°c<br>for longer time<br>at -20°c                    | at 2-8°c, -20°c | Not recommended             | <ul style="list-style-type: none"> <li>• heat-inactivated specimens&amp;• grossly hemolyzed specimens</li> </ul>  | Transfer samples to be frozen |
| 243 | HBsAg (quantitative)  | S, PE, PH, PC | 0.5        | ECLIA Elisa  | Daily        | 1 week at<br>2-8°c<br>for longer time<br>at -20°c                    | at 2-8°c, -20°c | Not recommended             | <ul style="list-style-type: none"> <li>• heat-inactivated specimens&amp;• grossly hemolyzed specimens&amp;• specimens with obvious microbial contamination</li> </ul> | Transfer samples to be frozen |
| 244 | HBV PCR (qualitative) | P.E           | See table  | PCR          | 7 days       | 3 days. at RT<br>7 days at 2-8°c,<br>2 month<br>at -20°c             | at 2-8°c, -20°c | Not recommended             | incorrect anti coagulant(heparin)   | Transfer samples to be frozen |
| 245 | HCV genotyping PCR    | P.E           | 1          | PCR          | 10 days      | 4 hrs. at RT<br>2 days at 2-8°c,<br>3 days at -20°c<br>4 month -70°c | at 2-8°c        | Not recommended             | incorrect anti coagulant(heparin)   | Transfer samples to be frozen |
| 246 | HCV Ab                | S, PE, PH     | 0.5        | Elisa        | Daily        | 7 days at 2-8°c ,<br>3 months<br>at -20°c                            | at 2-8°c, -20°c |                             | Hemolysis,  | Transfer samples to be frozen |
| 247 | HCV PCR (qualitative) | P.E           | 1          | PCR          | 15 days      | 4 hrs. at RT<br>2 days at 2-8°c,<br>3 days at -20°c<br>4 month -70°c | at 2-8°c        | Not recommended             | Icteric,Lipemic   | Transfer samples to be frozen |

| NO  | Test name                    | Sample type                             | S.Vol (ml) | Assay method   | Testing date | Storage  | Transport       | Preparation before sampling                                    | Reject                      | Others                          |
|-----|------------------------------|---|------------|----------------|--------------|--|-----------------|--|-----------------------------|---------------------------------|
| 248 | HDL cholestrol               | S, PE, PH                               | 0.5        | Photometric    | Daily        | 24 hrs. at RT,<br>7 days at 2-8°c<br>3 months at -20°c<br>(dark place) | at 2-8°c, -20°c | Fasting. Avoid using clofibrate 7 days prior sample collection | Hemolysis, Icteric, Lipemic |                                 |
| 249 | HDV Ab                       | S, PE, PH, BF                           | 0.5        | Elisa          | 15 days      | 7 days at 2-8°c<br>3 month at -20°c                                    | at 2-8°c, -20°c | Not recommended  | hemolysis, icteric, lipemic | avoid repeat freeze/thaw cycles |
| 250 | HDV PCR                      | See table                               | See table  | PCR            | 15 days      | 4 hrs. at RT<br>2 days at 2-8°c,<br>3 days at -20°c<br>4 month -70°c   | at 2-8°c        | Not recommended  | hemolysis, icteric, lipemic |                                 |
| 251 | HE4                          | S, PE, PH                               | 0.5        | ECLA           | Daily        | 3 days at 2-8°c,<br>2 months at -20°c                                  | at 2-8°c, -20°c |  | Hemolysis, Icteric, Lipemic |                                 |
| 252 | Helicobacter pylori stool Ag | St                                      | 1.0 gr     | Elisa          | Daily        | 2 days at 2-8°c for<br>1 months at -20°c                               | at 2-8°c, -20°c |  |                             |                                 |
| 253 | Hematocrit                   | WB(E)                                   | 1          | Cell counter   | Daily        | 1 day at 2-8°c   | at 2-8°c        |  |                             |                                 |
| 254 | Hemocydrine                  | U (R), Formalin added 1/10 formalin 10% | 10         | Slide staining | 15 days      | 3 day at 2-8°c<br>preaped slide<br>3 months at RT                      | at 2-8°c        | First-morning collection is preferred.                         |                             |                                 |
| 255 | Hemoglobin                   | WB(E)                                   | 1          | Cell counter   | Daily        | 4 hrs at RT,<br>24 hrs. at 2-8°c                                       | at 2-8°c        | Not recommended  | Hemolysis, Clotting, Frozen |                                 |
| 256 | Heparine (drug abuse)        | WB, BF                                  | 2,5        | TLC            | by contact   | 4 days at 2-8°c Ur.:<br>1 months at -20°c                              | at 2-8°c, -20°c |  |                             |                                 |
| 257 | Heroein (drug abuse)         | WB, BF                                  | 2,5        | TLC            | by contact   | 4 days at 2-8°c Ur.:<br>1 months at -20°c                              | at 2-8°c, -20°c |  |                             |                                 |

| NO  | Test name              | Sample type | S.Vol (ml) | Assay method | Testing date | Storage   | Transport         | Preparation before sampling | Reject   | Others                        |
|-----|------------------------|-------------|------------|--------------|--------------|---|-------------------|-----------------------------|--|-------------------------------|
| 258 | HEV Ab                 | S           | 0.5        | Elisa        | Daily        | 7 days at 2-8° c,<br>3 months at -20° c                                 | at 2-8° c, -20° c | Not recommended             | Hemolysis, Icteric                                   | Transfer samples to be frozen |
| 259 | HIV Ab (1&2)           | S           | 0.5        | ECLA         | Daily        | 5 days at 2-8° c,<br>2 months at -20° c                                 | at 2-8° c, -20° c |                             | Hemolysis, Icteric, Lipemic                          |                               |
| 260 | HIV Ab (Western Blot)  | S, PE, PH   | 0.5        | Western Blot | 15 days      | 5 days at 2-8° c,<br>2 months at -20° c                                 | at 2-8° c, -20° c | Not recommended             | Hemolysis, Icteric, Lipemic                          |                               |
| 261 | HIV P24 Ag             | S           | 0.5        | Elisa        | Daily        | 1 week at 2-8° c<br>for longer time at -20° c                           | at 2-8° c, -20° c |                             |  |                               |
| 262 | HIV PCR                | See table   | See table  | PCR          | 2 days       | 4 hrs. at RT<br>2 days at 2-8° c,<br>3 days at -20° c<br>4 month -70° c | at 2-8° c, -20° c | Not recommended             |  |                               |
| 263 | HIV PCR (quantitative) | See table 2 | 3          | Real time    | 15 days      | see table 2   | See table 2       | Not recommended             |  |                               |
| 264 | HLA B27                | WB (D)      | 5          | serology-PCR | Daily        | 5 days at 2-8° c  | at 2-8° c         | Not recommended             | Hemolysis, Clotting, Frozen, Incorrect anticoagulant |                               |
| 265 | HLA B5                 | WB (D)      | 5          | serology-PCR | Daily        | 5 days at 2-8° c  | at 2-8° c         | Not recommended             | Hemolysis, Clotting, Frozen, Incorrect anticoagulant |                               |
| 266 | HLA B51                | WB (D)      | 5          | serology-PCR | Daily        | 5 days at 2-8° c  | at 2-8° c         | Not recommended             | Hemolysis, Clotting, Frozen, Incorrect anticoagulant |                               |
| 267 | HLA B8                 | WB (D)      | 5          | serology-PCR | Daily        | 5 days at 2-8° c  | at 2-8° c         | Not recommended             | Hemolysis, Clotting, Frozen, Incorrect anticoagulant |                               |

| NO  | Test name               | Sample type                           | S.Vol (ml) | Assay method | Testing date | Storage   | Transport       | Preparation before sampling | Reject  | Others |
|-----|-------------------------|---------------------------------------|------------|--------------|--------------|---|-----------------|-----------------------------|---|--------|
| 268 | HLA class I (ABC) (PCR) | WB(E)                                 | 10         | PCR          | 15 days      | 5 days at 2-8°c                                       | at 2-8°c        | Not recommended             | Hemolysis, Clotting,Frozen, Incorrect anticoagulant                                     |        |
| 269 | HLA class II (DQ) (PCR) | WB(E)                                 | 10         | PCR          | 15 days      | 5 days at 2-8°c                                       | at 2-8°c        | Not recommended             | Hemolysis, Clotting,Frozen, Incorrect anticoagulant                                     |        |
| 270 | HLA class II (DR) (RCR) | WB(E)                                 | 10         | PCR          | 15 days      | 5 days at 2-8°c                                       | at 2-8°c        | Not recommended             | Hemolysis, Clotting,Frozen, Incorrect anticoagulant                                     |        |
| 271 | Homocysteine            | U                                     | 0.5,5      | Colorimetry  | 15 days      | 3 days at 2-8°c, 3 months at -20°c                    | at 2-8°c, -20°c | Fasting is recommended.     | Hemolysis, Lipemic  |        |
| *   | Homocysteine            | S                                     | 0.5,5      | Colorimetry  | sun& wed     | 3 days at 2-8°c, 3 months at -20°c                    | at 2-8°c, -20°c | Fasting is recommended.     | Hemolysis, Lipemic  |        |
| 272 | HPV genotyping PCR      | men:tissue<br>Women:pap esmear liquid | See table  | PCR          | 15 days      | 15 days. at RT-<br>21 days at 2-8°c, 3 month at -20°c | at 2-8°c        |                             | frozen,formalin fixed tissue,using anti fungal vaginal cream&contraceptive jel,douching |        |
| 273 | HSV Ab (IgG)            | S, PE, PH, BF                         | 0.5        | Elisa        | mon&Thu      | 1 week at 2-8°c for longer time at -20°               | at 2-8°c, -20°c | Hemolysis, Icteric          | avoid repeated freeze/thaw cycles   |        |
| 274 | HSV Ab (IgM)            | S, PE, PH, BF                         | 0.5        | Elisa        | mon&Thu      | 1 week at 2-8°c for longer time at -20°               | at 2-8°c, -20°c | Hemolysis, Icteric          | avoid repeated freeze/thaw cycles   |        |
| 275 | HSV Ab1&2 (IgG)         | S, PE, PH, BF                         | 0.5        | Elisa        | mon&Thu      | 1 week at 2-8°c for longer time at -20°               | at 2-8°c, -20°c | Hemolysis, Icteric          | avoid repeated freeze/thaw cycles   |        |

| NO  | Test name                | Sample type   | S.Vol (ml) | Assay method  | Testing date | Storage  | Transport        | Preparation before sampling | Reject  | Others                            |
|-----|--------------------------|---------------|------------|---------------|--------------|--|------------------|-----------------------------|---|-----------------------------------|
| 276 | HSV Ab1&2 (IgM)          | S, PE, PH, BF | 0.5        | Elisa         | mon&Thu      | 1 week at 2-8°c for longer time at -20°          | at 2-8°c, -20°c  | Hemolysis, Icteric          | avoid repeated freeze/thaw cycles   |                                   |
| 277 | HSV PCR                  | See table     | See table  | PCR           | Daily        | 8 hrs. at RT, 3 days at 2-8°c, 5 months at -20°c | at 2-8°c         | Not recommended             | incorrect anti coagulant(heparin),formalin fixed fluids,tissue (formalin Fixes),calcium-alginate tipped,wood and gel media swab |                                   |
| 278 | HTLV Ab (1&2)            | S, PE, PH     | 1          | CLIA          | Sat&mon&wen  | 1 week at 2-8°c for longer time at -20°c         | at 2-8°c         |                             | incorrect anti coagulant(heparin)frozen Sample  |                                   |
| 279 | HTLV Ab (1&2)            | WB, CSF       | 1          | PCR           | 15 days      | 2days. at RT-14 days at 2-8°c                    | 2-8°c (prefered) | Not recommended             | incorrect anti coagulant(heparin)frozen Sample  |                                   |
| 280 | Hydatid Ab (IgG)         | S             | 0.5        | IB IIFT ELISA | sat          | 1 week at 2-8°c for longer time at -20°c         | at 2-8°c, -20°c  | hemolysis,icteric           | avoid repeated freeze/thaw cycles   |                                   |
| 281 | Hydroxyzine (drug abuse) | WB, BF        | 2,5        | TLC           | 15 days      | 4 days at 2-8°c Ur.: 1 months at -20°c           | at 2-8°c, -20°c  |                             |   |                                   |
| 282 | Hyosine (drug abuse)     | WB, BF        | 2,5        | TLC           | 15 days      | 4 days at 2-8°c Ur.: 1 months at -20°c           | at 2-8°c, -20°c  |                             | Frozen  |                                   |
| 283 | IFOB                     | stool         | 0.5gr      | mm.Chemical   | Daily        | 3 days at RT                                     | at 2-8°c         |                             |   |                                   |
| 284 | IgA                      | S             | 0.5        | Imm.turb.     | Daily        | 1 week at 2-8°c for longer time at -20°          | at 2-8°c, -20°c  | Not recommended             | Hemolysis, Icteric,Lipemic  | avoid repeated freeze/thaw cycles |

| NO  | Test name                         | Sample type     | S.Vol (ml) | Assay method | Testing date | Storage                                   | Transport       | Preparation before sampling   | Reject   | Others  |
|-----|-----------------------------------|-----------------|------------|--------------|--------------|---|-----------------|---|--|---|
| 285 | IgE                               | S               | 0.5        | CLIA-ECLIA   | sun & wed    | 7 days at 2-8°c, 3 months at -20°c        | at 2-8°c, -20°c |   | Hemolysis, Icteric, Lipemic  | avoid repeated freeze/thaw cycles   |
| 286 | IgF-1                             | S               | 0.5        | Elisa        | Daily        | 6 hours at 2-8°c for longer time at -20°c | at 2-8°c, -20°c | Fasting is recommended  |  | be separated quickly and transport on ice. refrigerated centrifuge must be used |
| 287 | Hydroxyindole acetic acid (SHIAA) | U (see table 1) | 5          | Elisa        | 15 days      | 6 months at -20°c protect from sunlight   | at -20°c        | <p><b>Patient Prep:</b> Patients should abstain, if possible, from medications, over-the-counter drugs, and herbal remedies for at least 72 hours prior to the test. Foods rich in serotonin (avocados, bananas, eggplant, pineapple, plums, tomatoes, walnuts), chocolate, mango, date, grapefruit, melon, watermelon, kiwi, nuts, plantain and medications that may affect metabolism of serotonin.</p> <p><b>Imipramine, isoniazid, methyldopa, ... must be avoided at least 72 hours before and during collection of urine.</b></p> | <p><b>Increased HIAA:</b> Acetaminophen, acetanilide, caffeine, coumaric acid, diazepam (Valium®), ephedrine, fluorouracil, glycerol guaiacolate (Guaifenesin), melphalan (Alkeran®), mephenesin, methamphetamine (Desoxyn), methocarbamol (Robaxin®), naproxen, nicotine, phenacetin, phenmetrazine, phenobarbital, phentolamine, rauwolfia, reserpine.</p> <p><b>Decreased HIAA:</b> Aspirin, chlorpromazine (Thorazine), corticotropin, dihydroxyphenylacetic acid, ethanol, gentisic acid, homogentisic acid, hydrazine derivatives,</p> |   |



| NO  | Test name                   | Sample type           | S.Vol (ml) | Assay method  | Testing date | Storage  | Transport                     | Preparation before sampling | Reject                     | Others                            |
|-----|-----------------------------|-----------------------|------------|---------------|--------------|--|-------------------------------|-----------------------------|----------------------------|-----------------------------------|
| 288 | Igf-Bp3                     | S                     | 0.5        | Elisa         | sun&wed      | 6 hours at 2-8°c for longer time at -20°c  | at 2-8°c, -20°c               |                             |                            |                                   |
| 289 | IgG                         | S                     | 0.5        | Imm.turb.     | Daily        | 7 days at 2-8°c, 3 months at -20°c   | at 2-8°c, -20°c               |                             | Hemolysis, Icteric,Lipemic | avoid repeated freeze/thaw cycles |
| 290 | IgG index                   | S, CSF                | 0.5        | Imm.turb.     | Daily        | 7 days at 2-8°c, 3 months at -20°c   | at 2-8°c, -20°c               |                             | Hemolysis, Icteric,Lipemic | avoid repeated freeze/thaw cycles |
| 291 | IgG Subclass (1&2&3&4)      | S                     | 0.5        | Nephelometry  | 15 days      | 7 days at 2-8°c-3 months at -20°c  | at 2-8°c, -20°c               | fasting                     | hemolysis,icteric,lipemic  | avoid repeated freeze/thaw cycles |
| 292 | IgM                         | S                     | 0.5        | Imm.turb.     | Daily        | 7 days at 2-8°c, 3 months at -20°c   | at 2-8°c, -20°c               | Not recommended             | Hemolysis, Icteric,Lipemic | avoid repeated freeze/thaw cycles |
| 293 | IL6                         | S, PE, CSF            | 0.5        | ECLA          | 15 days      | CRITICAL FROZEN  | -20                           |                             | Hemolysis, Icteric,Lipemic | Be separated quickly              |
| 294 | Imipramine (drug abuse)     | WB, BF                | 2,5        | TLC           | by contact   | 4 days at 2-8°c Ur.: 1 months at -20°c   | at 2-8°c, -20°c               |                             |                            |                                   |
| 295 | Immuno electrophoresis      | S, U(24h) (see table) | 1,5        | Electrophores | 15 days      | S: 7 days at 2-8°c, 1 months at -20°c, U(24h) : 5 days at 2-8°c, 1 months at -70°c | at 2-8°c, -20°c, U24h : 2-8°c |                             |                            |                                   |
| 296 | Immuno histochemistry (IHC) | Biopsy,block          |            |               | by contact   | Minimumm 1 year after fixation (tissue) or block preparation.                      | at RT                         | Not recommended             | Hemolysis, Lipemic         |                                   |

| NO  | Test name                  | Sample type | S.Vol (ml) | Assay method | Testing date | Storage                                | Transport       | Preparation before sampling  | Reject                     | Others  |
|-----|----------------------------|-------------|------------|--------------|--------------|--|-----------------|--|----------------------------|---|
| 297 | Indomethacine (drug abuse) | WB, BF      | 2,5        | TLC          | by contact   | 4 days at 2-8°c Ur.: 1 months at -20°c | at 2-8°c, -20°c |  |                            |   |
| 298 | Inhibin A                  | S           | 0.5        | Elisa        | Daily        | 7 days at 2-8°c, 3 months at -20°c     | at 2-8°c, -20°c |  | Hemolysis,                 |   |
| 299 | Inhibin B                  | S           | 1          | Elisa        | 15 days      | 7 days at 2-8°c, 3 months at -20°c     | at 2-8°c, -20°c |  | hemolysis,lipemic          |   |
| 300 | Insulin                    | S           | 0.5        | CLIA         | sun&wed      | 7 days at 2-8°c, 3 months at -20°c     | at 2-8°c, -20°c | Fasting is recommended. Abstain using of Cimetidine, Ethanol ,Chlorpropamide,... few days prior sample collection.   | Hemolysis, Icteric,Lipemic | Be separated quickly-avoid repeated freeze/thaw cycles , Patient's age and sex. |
| 301 | Iron                       | S, PH       | 0.5        | Photometric  | Daily        | 7 days at 2-8°c , 3 months at -20°c    | at 2-8°c, -20°c | Fasting , Abstain iron compound 7 days prior sample collection and OCP, Sampling should be done preferably at 8-10 am. should be done preferably at 8-10 am. |                            |   |
| 302 | Isocarboxazid (drug abuse) | WB, BF      | 2,5        | TLC          | by contact   | 4 days at 2-8°c Ur.: 1 months at -20°c | at 2-8°c, -20°c |  |                            |   |
| 303 | Jak-2 mutation PCR         | See table   | See table  | PCR          | 15 days      | 24 hrs. at RT, 5 days at 2-8°c         | at 2-8°c        | Not recommended  |                            |   |
| 304 | Jelofoen (drug abuse)      | WB, BF      | 2,5        | TLC          | by contact   | 4 days at 2-8°c Ur.: 1 months at -20°c | at 2-8°c, -20°c |  |                            |   |

| NO  | Test name                           | Sample type | S.Vol (ml) | Assay method   | Testing date       | Storage   | Transport       | Preparation before sampling   | Reject  | Others   |
|-----|-------------------------------------|-------------|------------|----------------|--------------------|---|-----------------|---|---|--|
| 305 | Kala azar Ab (IgM)                  | S, BF       | 0.3        | IFA            | 15 days            | 5 day at 2-8°c, 3 months at -20°c                 | at 2-8°c, -20°c | Not recommended   |   |  |
| 306 | Kala azar Ab (Total)                | S, BF       | 0.3        | IFA            | 15 days            | 5 day at 2-8°c, 3 months at -20°c                 | at 2-8°c, -20°c | Not recommended   |   |  |
| 307 | kappa                               | WB(E)       | 2          | Flow cytometry | 15 days            | 2 days at RT                                      | at RT           | Not recommended   | hemolysis,icteric,lipemic.frozen,cloting,incorrect anti coagulant |  |
| 308 | Keppra (Levetiracetam) (drug abuse) | S           | 1          | TLC            | 15 days            | 1 days at 2-8°c, 3 months at -20°c                | at 2-8°c, -20°c | Not recommended   |   |  |
| 309 | Krack (drug abuse)                  | WB, BF      | 2,5        | TLC            | by contact         | 4 days at 2-8°c Ur.: 1 months at -20°c            | at 2-8°c, -20°c |   |   |  |
| 310 | Lactate                             | PH, BF, CSF | 0.5        | Chemical       | Daily              | 1 day at 2-8°c, 1 months at -20°c                 | at RT           | Blood sampling without tourniquet.Abstain using of Cefotaxim.             | Hemolysis, Icteric,Lipemic  | Be separated quickly-avoid repeated freeze/thaw cycles |
| 311 | lambda                              | WB(E)       | 2          | Flow cytometry | sat& sun&mon & thu | 2days at RT                                       | at RT           | Not recommended   | hemolysis,icteric,lipemic.frozen,cloting,incorrect anti coagulant |  |
| 312 | Lamotrigin (drug abuse)             | S           | 1          | HPLC           | Sun&wens           | 7 days at 2-8°c 2 months at -20°c                 | at 2-8°c, -20°c | Not recommended   | hemolysis   | Be separated quickly.avoid repeated freeze/thaw cycles |
| 313 | LDH                                 | S           | 0.5        | Colorimetry    | Daily              | 2 days at RT, 4 days at 2-8°c, 1 nmonths at -20°c | at 2-8°c        | Abstain using of codeine,Clofibrate,... prior few days sample collection. |   |  |
| 314 | LDL cholestrol                      | S, PH       | 0.5        | Photometric    | Daily              | 5 daysat 2-8°c , 1 months at -20°c (dark place)   | at 2-8°c, -20°c | Fasting   | Incorrect anticoagulant, Clotting                                 |  |

| NO  | Test name                   | Sample type | S.Vol (ml) | Assay method   | Testing date | Storage  | Transport       | Preparation before sampling                               | Reject  | Others                            |
|-----|-----------------------------|-------------|------------|----------------|--------------|--|-----------------|---|---|-----------------------------------|
| 315 | LE cell                     | WB(H or D)  | 1          | Direct smear   | Daily        | The same time must be tested                         | The same time   |   |   |                                   |
| 316 | Lead                        | WB(E), U    | 1,5        | Atomic abs     | Sat& Tue     | 5 days at RT, 7 days at 2-8°c, 1 months at -20°c     | at 2-8°c, -20°c | Not recommended   |   |                                   |
| 317 | Leiden factor (factor V)    | See table   | See table  | PCR            | 7 days       | 21 days. at RT<br>7 days at 2-8°c, 3 months at -20°c | at RT&at 2-8°c  | Not recommended   | hemolysis,frozen,clottig,in correct anticoagulant |                                   |
| 318 | Leishman body               | Skin test   |            | Slide staining | Daily        | Unlimited after fixation at RT.                      | at RT           | Avoid using of tropical cream 3 days prior to collection. |   |                                   |
| 319 | Leptin                      | S, PE       | 0.5        | Elisa          | 15 days      | 2 days at 2-8°c, 1 month at -20°c                    | at 2-8°c, -20°c | fasting   |   |                                   |
| 320 | Leptospira Ab (IgG)         | S, CSF      | 0.5        | IFA            | 15 days      | 7 days at 2-8°c , 3 months at -20°c                  | at 2-8°c, -20°c |   | Hemolysis, Icteric,Lipemic                        | avoid repeated freeze/thaw cycles |
| 321 | Leptospira Ab (IgM)         | S,CSF       | 0.5        | FA             | 15 days      | 7 days at 2-8°c , 3 months at -20°c                  | at 2-8°c, -20°c |   |   |                                   |
| 322 | LH                          | S           | 0.5        | CLIA-ECLIA     | Daily        | 7 days at 2-8°c , 3 months at -20°c                  | at 2-8°c        |   | Hemolysis, Icteric,Lipemic, Frozen                | Be separated quickly              |
| 323 | Lipase                      | S           | 0.5        | Photometric    | Daily        | 5 days at 2-8°c , 3 months at -20°c                  | at 2-8°c, -20°c | Fasting   |   |                                   |
| 324 | Lipoprotein electrophoresis | S           | 0.5        | Electrophores  | 15 days      | 10 days at 2-8°c                                     | at 2-8°c        | Fasting   |   |                                   |

| NO  | Test name                  | Sample type | S.Vol (ml) | Assay method | Testing date        | Storage   | Transport       | Preparation before sampling  | Reject  | Others   |
|-----|----------------------------|-------------|------------|--------------|---------------------|---|-----------------|--|---|--|
| 325 | Listeria Ab                | S           | 0.5        | IFA          | Daily               | 1 week at 2-8°c<br>for longer time<br>at -20°c  | at 2-8°c, -20°c |  |   |  |
| 326 | Listeria Ab (IgG)          | S           | 0.3        | IFA          | Daily               | 7 days at<br>2-8°c<br>3 months<br>at -20°c      | at 2-8°c, -20°c | Not recommended  | Hemolysis   |  |
| 327 | Listeria Ab (IgM)          | S           | 0.3        | IFA          | Daily               | 7 days at<br>2-8°c 3 months<br>at -20°c         | at 2-8°c, -20°c | Not recommended  |   |  |
| 328 | Lithium                    | S           | 0.5        | ISE          | Daily               | 1 day at<br>2-8°c,<br>3 months<br>at-20°c       | at 2-8°c        | Specimens are commonly<br>drawn approximately 12<br>hours after last dose of<br>lithium taken. Notice using<br>of diuretics, metronidazole<br>, flouxitine, ... drugs. |   |  |
| 329 | LKM Ab                     | S           | 0.5        | Elisa        | Sun&mon<br>&<br>thu | 1 week at 2-8°c<br>for longer time<br>at -20°c  | at 2-8°c, -20°c |  |   |  |
| 330 | Loratidine<br>(drug abuse) | WB, BF      | 2,5        | TLC          | by contact          | 4 days at<br>2-8°c Ur.:<br>1 months<br>at -20°c | at 2-8°c, -20°c |  |   |  |
| 331 | Lourazepam                 | S           | 0.5        | HPLC         | by contact          | 7 days at<br>2-8°c,<br>3 months<br>at -20°cc    | at 2-8°c, -20°c |  | Hemolysis,<br>Incorrect<br>anticoagulant.<br>Icteric & lipemic<br>for non<br>Coagulation<br>method. | avoid repeated<br>freeze/thaw cycles<br>Be separated<br>quickly/Two times<br>centrifugation is<br>prefered./ to test<br>LAC<br>( DRVVT & APTT-<br>LA)<br>is done |

| NO  | Test name                | Sample type | S.Vol (ml) | Assay method   | Testing date | Storage  | Transport       | Preparation before sampling   | Reject   | Others                            |
|-----|--------------------------|-------------|------------|----------------|--------------|--|-----------------|---|--|-----------------------------------|
| 332 | Lovatidine (drug abuse)  | WB, BF      | 2,5        | TLC            | by contact   | 4 days at 2-8°c Ur.: 1 months at -20°c           | at 2-8°c, -20°c |   |  |                                   |
| 333 | Lupus anti Coagulant     | PC          | 0.5        | Coagulation    | Daily        | up to 4 hours at 18-25°c up to 1 months at -20°c | at RT           | Not recommended   |  |                                   |
| *   | M2PK                     | St          | 1gr        |                | Daily        | At RT  | At RT           |   |  |                                   |
| 334 | Macroprolactin           | S           | 1          | CLIA           | Daily        | 2 days at 2-8°c, 3 months at -20°c               | at 2-8°c, -20°c | Sample collecting 3 hrs after awake. Abstain sexual activity and stress 2 days before test. Avoid using estrogen ,Insulin,... few days before test. |  |                                   |
| 335 | Magnesium                | S, PH, U    | 0.5,5      | Colorimetry    | Daily        | 1 week at 2-8°c                                  | at 2-8°c        |   | Hemolysis, Icteric,Lipemic, Clotting,Frozen, Incorrect anticoagulant |                                   |
| 336 | Malaria parasite         | WB(E)       | 1          | Slide staining | Daily        | Unlimited after fixation                         | at RT           | Not recommended   | Hemolysis, Icteric,Lipemic   | avoid repeated freeze/thaw cycles |
| 337 | Maprotiline (drug abuse) | WB, BF      | 2,5        | TLC            | by contact   | 4 days at 2-8°c Ur.: 1 months at -20°c           | at 2-8°c, -20°c |   |  |                                   |
| 338 | MCV                      | WB(E)       | 1          | Cell counter   | Daily        | 4 hrs at RT , 24 hrs. at 2-8°c                   | at 2-8°c        | Not recommended   | Hemolysis  |                                   |
| 339 | MCV(Ab)                  | S           | 0.3        | Elisa          | 15 days      | 4 hrs at RT , 24 hrs. at 2-8°c                   | at 2-8°c        | Not recommended   | hemolysis,icteric,lipemic  | avoid repeat freeze/thaw cycles   |

| NO  | Test name                   | Sample type      | S.Vol (ml) | Assay method | Testing date  | Storage  | Transport       | Preparation before sampling  | Reject                             | Others                            |
|-----|-----------------------------|------------------|------------|--------------|---------------|--|-----------------|--|------------------------------------|-----------------------------------|
| 340 | MDA (drug abuse)            | WB, BF           | 2,5        | TLC          | Daily         | 4 days at 2-8°c Ur.: 1 months at -20°c           | at 2-8°c, -20°c | Not recommended  | Hemolysis, Icteric, Lipemic        | avoid repeated freeze/thaw cycles |
| 341 | MDEA (drug abuse)           | WB, BF           | 2,5        | TLC          | Daily         | 4 days at 2-8°c Ur.: 1 months at -20°c           | at 2-8°c, -20°c |  |                                    |                                   |
| 342 | MDMA (drug abuse)           | WB, BF           | 2,5        | TLC          | Daily         | 4 days at 2-8°c Ur.: 1 months at -20°c           | at 2-8°c, -20°c |  |                                    |                                   |
| 343 | Measeles Ab (IgG)           | S, BF            | 0.5        | Elisa        | mon&Thu       | 7 days at 2-8°c, 3 months at -20°c               | at 2-8°c, -20°c |  |                                    |                                   |
| 344 | Measeles Ab (IgM)           | S, BF            | 0.5        | Elisa        | mon&Thu       | 7 days at 2-8°c, 3 months at -20°c               | at 2-8°c, -20°c |  |                                    |                                   |
| 345 | Mefenamic acid (drug abuse) | WB, BF           | 2,5        | TLC          | by contact    | 4 days at 2-8°c Ur.: 1 months at -20°c           | at 2-8°c, -20°c |  |                                    |                                   |
| 346 | Meprobamates (drug abuse)   | WB, BF           | 2,5        | TLC          | by contact    | 4 days at 2-8°c Ur.: 1 months at -20°c           | at 2-8°c, -20°c |  |                                    |                                   |
| 347 | Mercury (Hg)                | WB (E), U(24h)   | 2          | Atomic abs   | 15 days       | 5 days at RT, 7 days at 2-8°c, 1 months at -20°c | at 2-8°c, -20°c | Not recommended  | Clotting, Incorrect anti coagulant | Urine Hg : With cantact           |
| 348 | Metanephrin                 | U (see table 1 ) | 0.5        | Elisa        | mon&Thu &wen& | 7 days at 2-8°c, 1 month at -20°c (dark place)   | at 2-8°c        | Abstain from emotional and mental stress , medications for 3 days prior to collection. |                                    |                                   |
| 349 | Metformin (drug abuse)      | WB, BF           | 2,5        | TLC          | by contact    | 4 days at 2-8°c Ur.: 1 months at -20°c           | at 2-8°c, -20°c |  |                                    |                                   |

| NO  | Test name                          | Sample type | S.Vol (ml) | Assay method  | Testing date | Storage                                | Transport       | Preparation before sampling        | Reject                       | Others                        |
|-----|------------------------------------|-------------|------------|---------------|--------------|--|-----------------|------------------------------------|------------------------------|-------------------------------|
| 350 | Meth amphetamines (drug abuse)     | WB, BF      | 2,5        | TLC           | Daily        | 4 days at 2-8°c Ur.: 1 months at -20°c | at 2-8°c, -20°c |                                    |                              |                               |
| 351 | Methadone (drug abuse)             | WB, BF      | 2,5        | TLC           | Daily        | 4 days at 2-8°c Ur.: 1 months at -20°c | at 2-8°c, -20°c |                                    |                              |                               |
| 352 | Methanol (drug abuse)              | WB, BF      | 2,5        | TLC           | by contact   | 4 days at 2-8°c Ur.: 1 months at -20°c | at 2-8°c, -20°c |                                    |                              |                               |
| 353 | Methotroxide (MTX)                 | S           | 1          | TLC           | wen          | 1 days at 2-8°c, 3 months at -20°c     | at 2-8°c, -20°c | Not recommended                    | light-protection(dark-place) |                               |
| 354 | Metoclopramide (drug abuse)        | WB, BF      | 2,5        | TLC           | by contact   | 4 days at 2-8°c Ur.: 1 months at -20°c | at 2-8°c, -20°c |                                    |                              |                               |
| 355 | Metoral (drug abuse)               | WB, BF      | 2,5        | TLC           | by contact   | 4 days at 2-8°c Ur.: 1 months at -20°c | at 2-8°c, -20°c |                                    |                              |                               |
| 356 | Moclobemide (drug abuse)           | WB, BF      | 2,5        | TLC           | by contact   | 4 days at 2-8°c Ur.: 1 months at -20°c | at 2-8°c, -20°c |                                    |                              |                               |
| 357 | Mono oxid carbon (Co) (drug abuse) | WB          | 1          | Chemical      | by contact   | The same day                           | at RT           |                                    |                              |                               |
| 358 | Mono test                          | S           | 0.5        | Agglutination | Daily        | 7 days at 2-8°c, 3 months at -20°c     | at 2-8°c, -20°c |                                    |                              | Transfer samples to be frozen |
| 359 | Morphine (drug abuse)              | WB, BF      | 2,5        | TLC           | Daily        | 4 days at 2-8°c Ur.: 1 months at -20°c | at 2-8°c, -20°c | Notice using of codeine drugs,.... |                              |                               |



| NO  | Test name                  | Sample type     | S.Vol (ml)                     | Assay method     | Testing date | Storage   | Transport       | Preparation before sampling | Reject   | Others |
|-----|----------------------------|-----------------|--------------------------------|------------------|--------------|---|-----------------|-----------------------------|--|--------|
| 360 | MPO Ab                     | S, PE, PC, PH   | 0.3                            | Elisa            | Daily        | 7 days at 2-8°c, 3 months at -20°c                | at 2-8°c, -20°c | Not recommended             | Frozen, Incorrect anticoagulant, Clotting, Hemolysis |        |
| 361 | MSUD (DNPH)                | U (see table 1) | 0.5                            | Chemical&TL<br>C | 15 days      | 1 day at 2-8°c, 1 months at -20°c                 | at 2-8°c, -20°c |                             | Frozen, Incorrect anticoagulant, Clotting, Hemolysis |        |
| 362 | MTHFR (C667T & A1298C)     | See table       | See table                      | PCR              | 15 days      | 21 days. at RT-7 days at 2-8°c, 3 months at -20°c | at 2-8°c        | Not recommended             | hemolysis, frozen, clottig, in correct anticoagulant |        |
| 363 | Mumps Ab (IgG)             | S               | 0.5                            | Elisa            | mon&Thu      | 7 days at 2-8°c, 3 months at -20°c                | at 2-8°c, -20°c |                             |  |        |
| 364 | Mumps Ab (IgM)             | S               | 0.5                            | Elisa            | mon&Thu      | 7 days at 2-8°c, 3 months at -20°c                | at 2-8°c, -20°c |                             |  |        |
| 365 | Mycobacterium tuberculosis | tissue, St      | BF:1 ml-tissue: 5mm-stool:5 gr | PCR              | 15 days      | 7 days at 2-8°c, 14 days at -20°c                 | at 2-8°c        | Not recommended             | blood samples, formalin added sample                 |        |
| 366 | Mycobacterium Ab (IgA)     | S, sputum, BF   | 0.5                            | Elisa            | by contact   | 7 days at 2-8°c, 3 months at -20°c                | at 2-8°c, -20°c |                             |  |        |
| 367 | Mycobacterium Ab (IgG)     | S, sputum, BF   | 0.5                            | Elisa            | by contact   | 7 days at 2-8°c, 3 months at -20°c                | at 2-8°c, -20°c |                             |  |        |
| 368 | Mycobacterium Ab (IgM)     | S, sputum, BF   | 0.5                            | Elisa            | by contact   | 7 days at 2-8°c, 3 months at -20°c                | at 2-8°c, -20°c |                             |  |        |

| NO  | Test name                  | Sample type         | S.Vol (ml) | Assay method    | Testing date | Storage  | Transport       | Preparation before sampling | Reject   | Others |
|-----|----------------------------|---------------------|------------|-----------------|--------------|--|-----------------|-----------------------------|--|--------|
| 369 | Mycobacterium Culture      | S, sputum, BF       |            | Aerobic culture | 2 Months     | 2 days at 2-8°c                                  | at 2-8°c        |                             |  |        |
| 370 | Mycobacterium Direct smear | Sput., tissue, BF,. |            | Ziehl Neelsen   | 3 days       | 1 day at 2-8°c                                   | at 2-8°c        |                             |  |        |
| 371 | Mycopelasma pneumoniae     | CSF & pleural fluid | 1          | PCR             | by contact   | 1 days. at RT-3 days at 2-8°c, 1 months at -20°c | at 2-8°c        | Not recommended             | formalinized sample                                  |        |
| 372 | Mycophenolic-acid          | S                   | 0.5        | TLC             | by contact   | 4 days at 2-8°c Ur.: 1 months at -20°c           | at 2-8°c, -20°c |                             | Hemolysis, Frozen, Clotting, Incorrect anticoagulant |        |
| 373 | Myoglobin                  | U                   | 0.5        | TLC             | Daily        | 3 days at 2-8°c, 1 months at -20°cc              | at 2-8°c, -20°c |                             |  |        |
| 374 | Nalorphine (drug abuse)    | WB, BF              | 2,5        | TLC             | by contact   | 4 days at 2-8°c Ur.: 1 months at -20°c           | at 2-8°c, -20°c |                             |  |        |
| 375 | Naltroxan (drug abuse)     | WB, BF              | 2,5        | TLC             | by contact   | 4 days at 2-8°c Ur.: 1 months at -20°c           | at 2-8°c, -20°c |                             |  |        |
| 376 | Naproxen (drug abuse)      | WB, BF              | 2,5        | TLC             | by contact   | 4 days at 2-8°c Ur.: 1 months at -20°c           | at 2-8°c, -20°c |                             |  |        |
| 377 | Nasal dis. culture         | Nasal dis.          |            | Aerobic         | 3 days       | The same time must be tested.                    | at 2-8°c        | Abstain using antibiotic    |  |        |
| 378 | NBT                        | WB(E)               | 1          | Flow cytometry  | Daily        | The same day at 2-8°c (8 hrs.)                   | at 2-8°c        |                             |  |        |

| NO  | Test name                  | Sample type              | S.Vol (ml) | Assay method | Testing date | Storage                                   | Transport       | Preparation before sampling  | Reject  | Others                            |
|-----|----------------------------|--------------------------|------------|--------------|--------------|---|-----------------|--|---|-----------------------------------|
| 379 | Neurojesic (drug abuse)    | WB, BF                   | 2,5        | TLC          | by contact   | 4 days at 2-8°c Ur.: 1 months at -20°c    | at 2-8°c, -20°c |  |   |                                   |
| 380 | NGAL                       | U( R ), S, PE            | 2,0,5      | CLIA         | Daily        | 1 day at 2-8°c, 2 months at -20°c         | at 2-8°c, -20°c |  | Hemolysis, Lipemic,Icteric                          | avoid repeated freeze/thaw cycles |
| 381 | Nicotine (drug abuse)      | WB, BF                   | 2,5        | TLC          | by contact   | 4 days at 2-8°c Ur.: 1 months at -20°c    | at 2-8°c, -20°c |  |   |                                   |
| 382 | Nitrazepam                 | S                        | 0.5        | TLC          | by contact   | 2 days at 2-8°c, for longer time at -20°c | at 2-8°c, -20°c |  |   |                                   |
| 383 | Nitrazepam (drug abuse)    | WB, BF                   | 2,5        | TLC          | by contact   | 4 days at 2-8°c Ur.: 1 months at -20°c    | at 2-8°c, -20°c |  |   |                                   |
| 384 | NMO                        | S                        | 0.5        | IIFT         | sun          | 7 days at 2-8°c, 1 month at -20°c         | at 2-8°c, -20°c | No   | Hemolysis, Frozen,Clotting, Incorrect anticoagulant |                                   |
| 385 | Normetanephrine            | U(See table 3) pH :2-3 ) | 0.5        | Elisa        | mon&Thu &wen | 4 days at 2-8°c Ur.:1 month at -20°c      | at 2-8°c        | Abstain from emotional and mental stress , medications for 3 days prior to collection. | Hemolysis, Lipemic,Icteric                          |                                   |
| 386 | Nortriptyline (drug abuse) | WB, BF                   | 2,5        | TLC          | by contact   | 4 days at 2-8°c Ur.: 1 months at -20°c    | at 2-8°c, -20°c |  |   |                                   |
| 387 | Olanzapine (drug abuse)    | WB, BF                   | 2,5        | TLC          | by contact   | 4 days at 2-8°c Ur.: 1 months at -20°c    | at 2-8°c, -20°c |  |   |                                   |
| 388 | Opium (drug abuse)         | WB, BF                   | 2,5        | TLC          | by contact   | 4 days at 2-8°c Ur.: 1 months at -20°c    | at 2-8°c, -20°c |  |   |                                   |

| NO  | Test name                       | Sample type                           | S.Vol (ml) | Assay method | Testing date    | Storage   | Transport       | Preparation before sampling   | Reject | Others |
|-----|---------------------------------|---------------------------------------|------------|--------------|-----------------|---|-----------------|---|--------|--------|
| 389 | Osmolality                      | S ,stool,<br>U(R&24h)<br>(see table)  | 1          | Refrac.      | Daily           | 1 day at RT   | at 2-8°c, -20°c | Not recommended   |        |        |
| 390 | Osmotic fragility               | WB(H) and<br>WB(E)                    | 1          | Hemolysis    | Daily           | 1 day at RT   | at RT           | Fasting   |        |        |
| 391 | Osteocalcin                     | S, PE                                 | 0.5        | Elisa        | 15 days         | 3 days at<br>2-8°c,<br>2 months<br>at -20°c                     | at 2-8°c, -20°c | Not recommended   |        |        |
| 392 | Oxalate                         | U(24h&R)<br>(see table)<br>pH : 1.5-2 | 5          | Colorimetry  | mon&Thu<br>&wen | 1 week at<br>2-8°c, 1<br>months<br>at -20°c                     | at 2-8°c, -20°c | Abstain ingestion of<br>vitamin C, Orange<br>,Lemon,Grapefruit,<br>Tomatoes,Spinach,Straw<br>erry,... 3 days prior to<br>collection |        |        |
| 393 | Oxazepam                        | S                                     | 0.5        | TLC          | by contact      | 7 days at<br>2-8°c,<br>3 months<br>at -20°c                     | at 2-8°c, -20°c | Frozen,Incorrect<br>anticoagulant,<br>Clotting,<br>Hemolysis  |        |        |
| 394 | Oxazepam<br>(drug abuse)        | WB, BF                                | 2,5        | TLC          | by contact      | 4 days at<br>2-8°c Ur.:<br>1 months<br>at -20°c                 | at 2-8°c, -20°c |   |        |        |
| 395 | Oxidant/<br>antioxidant         | S                                     | 0.5        | Elisa        | by contact      | 2 days at<br>2-8°c for longer<br>time<br>at -20°                | at 2-8°c, -20°c |   |        |        |
| 396 | Oxyphenbutazone<br>(drug abuse) | WB, BF                                | 2,5        | TLC          | by contact      | 4 days at<br>2-8°c Ur.:<br>1 months<br>at -20°c                 | at 2-8°c, -20°c |   |        |        |
| 397 | Papp-A                          | S                                     | 0.5        | CLIA-ECLIA   | Daily           | 8 hours at 25°c, 3<br>days<br>at 2-8°c,<br>3 mounth<br>at -20°c | at 2-8°c, -20°c |   |        |        |

| NO  | Test name                  | Sample type  | S.Vol (ml) | Assay method  | Testing date | Storage   | Transport         | Preparation before sampling       | Reject   | Others  |
|-----|----------------------------|--------------|------------|---------------|--------------|---|-------------------|-----------------------------------|--|---|
| 399 | Parvovirus B19             | S            | 2          | IB            | 3 days       | 7 days at 2-8°C, 1 month at -20°C   | at 2-8°C, -20°C   | No                                | Hemolysis, Frozen, Clotting, Incorrect anticoagulant       |   |
| 400 | Parvovirus PCR             | See table    | See table  | PCR           | 15 days      | tissue: fresh, 1m < 70°C-BMA: 8 hrs RT, 3 days at 2-8°C, 6 months at -20°C paraffin block at RT (unlimited) | 2-8°C (preferred) | Not recommended                   | incorrect anti coagulant (heparin), clot sample, hemolysis |   |
| 401 | Pathergy test              | Skin test    |            | Direct smear  | Daily        |   | at 37°C           |                                   |  |   |
| 402 | Paul Bunnell               | S            | 0.5        | Agglutination | Daily        | 5 days at 2-8°C, 2 months at -20°C  | at 2-8°C, -20°C   |                                   |  | Transfer samples to be frozen                           |
| 403 | PCT (Post coital test)     | Vaginal dis. | 0.5        | Direct smear  | Daily        | Rapidly must be tested.   | See storage       | Not sexual intercourse for 3 days |  |   |
| 404 | Perphenazine (drug abuse)  | WB, BF       | 2,5        | TLC           | by contact   | 2 days at RT, 7 days at 2-8°C, 2 weeks at -20°C   | at 2-8°C, -20°C   |                                   |  |   |
| 405 | Petidine (drug abuse)      | WB, BF       | 2,5        | TLC           | by contact   | 2 days at RT, 7 days at 2-8°C, 2 weeks at -20°C   | at 2-8°C, -20°C   |                                   |  |   |
| 406 | Phencyclidine (drug abuse) | WB, BF       | 2,5        | TLC           | by contact   | 2 days at RT, 7 days at 2-8°C, 2 weeks at -20°C   | at 2-8°C, -20°C   |                                   |  |   |
| 407 | Phenobarbital (drug abuse) | S            | 1          | HPLC          | Daily        | 2 days at RT, 7 days at 2-8°C, 2 weeks at -20°C   | at 2-8°C, -20°C   | Not recommended                   | hemolysis  | Be separated quickly. avoid repeated freeze/thaw cycles |

| NO  | Test name                | Sample type   | S.Vol (ml) | Assay method  | Testing date   | Storage  | Transport           | Preparation before sampling | Reject  | Others   |
|-----|--------------------------|---------------|------------|---------------|----------------|--|---------------------|-----------------------------|---|--|
| 408 | Phenotaxine (drug abuse) | WB, BF        | 2,5        | TLC           | by contact     | 2 days at RT, 7 days at 2-8° c , 2 weeks at -20° c                             | at 2-8° c, -20° c   |                             |   |  |
| 409 | Phenylalanine            | PE, DBS       | 1          | HPLC          | sun&wed        | fresh plasma:1 day at 2-8° c DBS:with cover 1 week at 2-8° c,3months at -20° c | at 2-8° c, -20° c   | fasting                     | hemolysis   | DBS:see sampling guideline                             |
| 410 | Phenytoin (drug abuse)   | S             | 1          | HPLC          | Daily          | 4 days at 2-8° c Ur.:1 month at -20° c   | at 2-8° c, -20° c   | Not recommended             | hemolysis   | Be separated quickly.avoid repeated freeze/thaw cycles |
| 411 | Phosphide (drug abuse)   | WB, BF        | 2,5        | TLC           | by contact     | 4 days at 2-8° c Ur.:1 months at -20° c  | at 2-8° c, -20° c   |                             |   |  |
| 412 | Phosphorus               | S, PH, U      | 0,5,5      | Photometric   | Daily          | hrs. at RT, 4 days at 2-8° c, 3 months at -20° c                               | at RT               | Fasting                     |   | Be separated quickly                                   |
| 413 | Phosphourus (drug abuse) | WB, BF        | 2,5        | TLC           | by contact     | 4 days at 2-8° c Ur.: 1 months at -20° c                                       | at 2-8° c, -20° c   |                             |   |  |
| 414 | Pimozid (drug abuse)     | WB, BF        | 2,5        | TLC           | by contact     | 4 days at 2-8° c Ur.: 1 months at -20° c                                       | at 2-8° c, -20° c   |                             |   |  |
| 415 | Piroxicam (drug abuse)   | S             | 1          | TLC           | by contact     | 4 days at 2-8° c 1 months at -20° c  | at 2-8° c, -20° c   |                             |   |  |
| 416 | PKU                      | U ( R )       | 10         | TLC           | 15 days        | The same time must be tested.  | at 2-8° c, -20° c   | Not recommended             | Hemolysis, Clotting,Frozen, Incorrect anticoagulant |  |
| 417 | Pleural fluid culture    | Pleural fluid | 5          | Aerobic & An. | Daily + 8 days | The same time must be tested.  | 0.5 hrs. at 2-8° c° | Avoid using antibiotic      | Hemolysis, Icteric,Lipemic                          |  |

| NO  | Test name                 | Sample type                      | S.Vol (ml) | Assay method  | Testing date | Storage                                  | Transport       | Preparation before sampling  | Reject   | Others   |
|-----|---------------------------|----------------------------------|------------|---------------|--------------|--|-----------------|--|--|--|
| 418 | Porphyrine                | U (24h,R)                        | 10         | Chemical      | 15 days      | 2 days at 2-8°c 3 months at -20°c        | at 2-8°c, -20°c | Take and storage in dark container                                 |  |  |
| 419 | Potassium                 | S,BF,stool, U(R&24h) (see table) | 0.5,5      | ISE           | Daily        | 7 days at 2-8°c, 3 months at -20°c       | at 2-8°c, -20°c | Blood collecting without tourniquet.                               |  | Be separated quickly   |
| 420 | Pregnancy test            | S                                | 5          | Latex agglut. | Daily        | 2 days at 2-8°c, 3 months at -20°c       | at 2-8°c, -20°c | Not recommended  | Hemolysis, Icteric,Lipemic   | avoid freeze/thaw cycle  |
| 421 | Primidone (drug abuse)    | S                                | 1          | HPLC          | Daily        | 7 days at 2-8°c 2 months at -20°c        | at 2-8°c, -20°c | Not recommended  | hemolysis  | Be separated quickly.avoid repeated freeze/thaw cycles   |
| 422 | Pro-BNP                   | S, PE, PH                        | 0.5        | ECLIA         | Daily        | 1 week at 2-8°c for longer time at -20°c | at 2-8°c, -20°c |  | The assay is unaffected by icterus (bilirubin < 428 µmol/L or < 25 mg/dL), |  |
| 423 | Progestrone               | S, PE                            | 0.5        | CLIA          | mon&Thu      | 1 week at 2-8°c for longer time at -20°  | at 2-8°c, -20°c |  | hemolysis (Hb < 0.621 mmol/L or < 1.0 g/dL), lipemia (Intralipid           |  |
| 424 | Prolactin                 | S                                | 0.5        | CLIA          | Daily        | 7 days at 2-8°c 3 months at -20°c        | at 2-8°c, -20°c |  | < 17.1 mmol/L or < 1500 mg/dL) and biotin (< 123 nmol/L or < 30 ng/mL).    | transport on ice-avoid repeated freeze/thaw cycles Be separated quickly/Two times centrifugation is preferred. |
| 425 | Promethazine (drug abuse) | WB, BF                           | 2,5        | TLC           | by contact   | 4 days at 2-8°c Ur.: 1 months at -20°c   | at 2-8°c, -20°c |  |  |  |
| 426 | Protein C                 | PC                               | 0.5        | coagulation   | Sun&wen      | 7 days at 2-8°c, 1 month at -20°c        | at -20°c        | Abstain using Warfarine, coumadin,Estrogen,... 10 days before test |  | Be separated quickly   |

| NO  | Test name                | Sample type                       | S.Vol (ml) | Assay method         | Testing date | Storage   | Transport        | Preparation before sampling  | Reject                     | Others                  |
|-----|--------------------------|-----------------------------------|------------|----------------------|--------------|---|------------------|--|----------------------------|-------------------------|
| 427 | Protein electrophoresis  | S                                 | 0.5        | capillary , SDS page | Sat&Tue      | 7 days at 2-8°c, 1 months at -20°c                      | at 2-8°c, -20°c  | Not recommended  | Hemolysis, Icteric,Lipemic | avoid freeze/thaw cycle |
| 428 | Protein S                | PC                                | 0.5        | coagulation          | Sun&wen      | 1 day at 25°c ,2 days at 2-8°c for longer time at -20°c | at -20°c         | Abstain using Warfarine, coumadin,Estrogen,... 10 days before test                           |                            | Be separated quickly    |
| 429 | Protein total            | S, BF                             | 0.5        | Photometric          | Daily        | 1 day at 25°c ,2 days at 2-8°c for longer time at -20°c | at -20°c         |  |                            |                         |
| 430 | PSA                      | PC                                | 0.5        | CLIA                 | Daily        | 2 days at 2-8°c for longer time at -20°c                | at 2-8°c, -20°c  | Fasting is recommended. Abstain prostate exam,heavy exercise &ejaculation 2 days before test |                            |                         |
| 431 | Pt (prothrombin time)    | PC                                | 1          | Coagulation          | Daily        | 2 hrs.RT&2 Weeks at -20°c                               | at 2-8°c, -20°c  | Notice use warfarine,coumadin,heroine  | hemolysis                  | Be separated quickly    |
| 432 | PTH                      | S, PE                             | 0.5        | ECLIA Elisa          | Daily        | 2 days at 2-8°c, 3 months at -20°c                      | at 2-8°c, -20°c  | Fasting  |                            | Be separated quickly    |
| 433 | PTH (1-84)               | S, PE                             | 1          | Elisa                | 15 days      | 1 day at 2-8°c, 2 months at -20°c                       | at 2-8°c, -20°c, | Fasting  |                            | avoid freeze/thaw cycle |
| 434 | Pyrazinamid (drug abuse) | WB, BF                            | 2,5        | TLC                  | by contact   | 4 days at 2-8°c Ur.: 1 months at -20°c                  | at 2-8°c, -20°c  |  |                            |                         |
| 435 | Pyrethroid (drug abuse)  | WB, BF                            | 2,5        | TLC                  | by contact   | 4 days at 2-8°c Ur.: 1 months at -20°c                  | at 2-8°c, -20°c  |  |                            |                         |
| 436 | Pyruvate                 | WB on cold perchloric acid(0.6 M) | 1          | Chemical             | Daily        | After preparation: 1 week at 2-8°c 3 months at -20°c    | at 2-8°c, -20°c, | Sample collecting with cold tube & syringe   |                            |                         |



| NO  | Test name          | Sample type | S.Vol (ml) | Assay method      | Testing date | Storage                                 | Transport       | Preparation before sampling  | Reject   | Others   |
|-----|--------------------|-------------|------------|-------------------|--------------|---|-----------------|--|--|--|
| 437 | quantiferon-TB     | S           | 0.5        | Elisa             | 15 days      | 1 day at 2-8°c for longer time at -20°c | at 2-8°c, -20°c |  |  |  |
| 438 | R.P.R              | S           | 0.5        | Agglutination     | Daily        | 7 days at 2-8°c, 3 months at -20°c      | at 2-8°c, -20°c | Not recommended  | Hemolysis, Icteric,Lipemic ,Incorrect anticoagulant                  | Transfer samples to be frozen-avoid freeze/thaw cycle, samples must be done at the usual temperature (15-25 °c) , and centrifuged at room temperature and must be frozen immediately |
| 439 | Reducing substance | U           | 5CC        | Chemical          | Mon&Thu      | 2 weeks at -20°c                        | at 2-8°c, -20°c |  | Hemolysis, Icteric,Lipemic, Clotting,Frozen, Incorrect anticoagulant |  |
| *   | Reducing substance | St          | 1gr        | Chemical          | 15 days      | 4 weeks at -20°c<br>CRITICAL FROZEN     | at -20°c        |  | Hemolysis, Icteric,Lipemic, Clotting,Frozen, Incorrect anticoagulant |  |
| 440 | Renin              | P.E         | 0.5        | CLIA              | Daily        | 14 days at -20°c                        | at -20°c        | Fasting recommended , Notice use blood pressure drugs ,diuretics and collecting sample position(upright & supine) .Normal sodium diet (100-200 mEq/day) for at least three days. Take no medications known to affect renin-aldosterone system. | Hemolysis  | be separated quickly and transport on ice.refrigerated centrifuge must be used   |
| 441 | Reticloocyte       | WB          | 1          | Supravital stain. | Daily        | 6 hrs. at RT, 3 days at 2-8°c           | at 2-8°c        |  | Hemolysis, Icteric,Lipemic   |  |

| NO  | Test name                | Sample type     | S.Vol (ml) | Assay method | Testing date | Storage   | Transport       | Preparation before sampling | Reject  | Others   |
|-----|--------------------------|-----------------|------------|--------------|--------------|---|-----------------|-----------------------------|---|--|
| 442 | RF (qualitative)         | WB              | 0.5        | Imm.turb     | Daily        | 7 day at 2-8°c, 3 months at -20°c                 | at 2-8°c, -20°c |                             | Hemolysis, Icteric,Lipemic  |  |
| 443 | RF (G&A&M)               | PE              | 0.5        | Elisa        | Thu          | 7 days at 2-8°c, 3 months at -20°c                | at 2-8°c, -20°c |                             |   |  |
| 444 | Risperidone (drug abuse) | WB, BF          | 2,5        | TLC          | by contact   | 7 days at 2-8°c, 3 months at -20°c                | at 2-8°c, -20°c |                             |   |  |
| 445 | Rubella Ab (IgG)         | S               | 0.5        | Elisa        | mon&Thu      | 7 days at 2-8°c, 3 months at -20°c                | at 2-8°c, -20°c |                             |   |  |
| 446 | Rubella Ab (IgM)         | S, PE, PH       | 0.5        | Elisa        | mon&Thu      | 7 days at 2-8°c, 3 months at -20°c                | at 2-8°c, -20°c |                             |   |  |
| 447 | Rubella PCR              | See table       | See table  | PCR          | 15 days      | 3 days. at RT-7 days at 2-8°c, 2 months at -20°c  | at 2-8°c        | Not recommended             | incorrect anti coagulant(heparin),formalinized fluids,tissue (formalin Fixes),calcium-alginate tipped,wood and gel media swab |  |
| 448 | Salicylic-Acid           | S               | 0.5        | HPLC         | sun&wed      | 7 days at 2-8°c 2 months at -20°c                 | at 2-8°c, -20°c | Not recommended             | hemolysis   | Be separated quickly.avoid repeated freeze/thaw cycles |
| 449 | Scatch test              | Prepared slides | 2 slides   | Direct smear | Daily        | The same day must be tested.                      | at RT           |                             | Mixing sample with water,urine  |  |
| 450 | Selenium                 | S               | 0.5        | Atomic abs   | 15 days      | 2 days at RT, 7 days at 2-8°c , 3 months at -20°c | at 2-8°c, -20°c |                             |   |  |

| NO  | Test name      | Sample type     | S.Vol (ml) | Assay method   | Testing date | Storage  | Transport       | Preparation before sampling                             | Reject   | Others                  |
|-----|----------------|-----------------|------------|----------------|--------------|--|-----------------|---|--|-------------------------|
| 451 | Semen analysis | Semen           |            | Automation     | Daily        | The same time must be tested. Post vasectomy 1 day at RT or 2-8°c. | at 37°c         | Collect sample between 2-7 days after last ejaculation. |  |                         |
| 452 | Semen culture  | Semen           |            | CASA method    | Daily        | The same time must be tested. Post vasectomy 1 day at RT or 2-8°c. | at 37°c         | Avoid using antibiotic                                  |  |                         |
| 453 | SGOT (AST)     | S, PE, PH       | 0.5        | Photometric    | Daily        | 7 days at 2-8°c , 3 months at -20°c                                | at 2-8°c, -20°c | Notice use hepatotoxic drugs                            | Hemolysis, Icteric, Lipemic                          | avoid freeze/thaw cycle |
| 454 | SGPT (ALT)     | S, PE, PH       | 0.5        | Photometric    | Daily        | 2 days at 2-8°c 3 months at -20°c                                  | at 2-8°c, -20°c | Notice use hepatotoxic drugs                            | Frozen, Clotting, Incorrect anticoagulant, Hemolysis |                         |
| 455 | SHBG           | S               | 0.5        | CLIA           | Sat&Tue      | 2 days at 2-8°c for longer time at -20°c                           | at 2-8°c, -20°c |   |  |                         |
| 456 | Sickle prep    | WB(E)           | 1          | Chemical       | Daily        | The same day must be analysis                                      | at 2-8°c        |   |  |                         |
| 457 | Sirolimus      | WB              | 1          | CLIA           | Daily        | 4 days at 2-8°c 1 months at -20°c                                  | at 2-8°c, -20°c |   |  |                         |
| 458 | Sodium         | S, WB, BF, U    | 0.5,5      | ISE            | Daily        | 1 day at 2-8°c, for 1 months at -20°c                              | at 2-8°c, -20°c |   |  |                         |
| 459 | Special stain  | Slides or block |            | Slide staining | Daily        | at RT  | at RT           |   |  |                         |

| NO  | Test name              | Sample type     | S.Vol (ml) | Assay method    | Testing date | Storage                                     | Transport         | Preparation before sampling  | Reject   | Others               |
|-----|------------------------|-----------------|------------|-----------------|--------------|---|-------------------|--|--|----------------------|
| 460 | Stone analysis         | Urinary stone   |            | Chemical        | Daily        | at RT                                       | at RT             |  | Frozen sample, Specimens containing barium, oil, or urine. |                      |
| 461 | Stool Culture          | St              | 1.0 gr     | Aerobic         | Daily        | The same day must be analysis               | at RT             |  |  |                      |
| 462 | Stool exam             | St              | 1.0 gr     | Formalin ether  | Daily        | The same day must be analysis               | at RT             |  |  |                      |
| 463 | Stool fat              | St              | 1.0 gr     | Sudan black III | Daily        | The same day must be analysis               | at RT             |  |  |                      |
| 464 | Sucrose hemolysis test | WB(E)&S         | 1          | Hemolysis       | Daily        | The same day must be analysis               | at 2-8° c         |  |  | Be separated quickly |
| 465 | Stool occult blood     | St              | 1.0 gr     | Mayer           | Daily        | The same day must be analysis               | at RT             | Abstain ingestion of red meat, turnip, radish, kind of cabbages, Carrot, Fruits (Melon, watermelon, Cantaloupe,...), Citrus, Vitamin C, tart extracts, 3 days prior sample collection and Iron, Anti inflammatory non steroidal drugs such as brufen, naproxen, aspirin, Colchicine, Indomethacin, Corton,... 7 days prior sample collection |  |                      |
| 466 | Sugar chromatography   | U (see table 1) | 10         | TLC             | 15 days      | 4 days at 2-8° c<br>Ur.: 1 months at -20° c | at 2-8° c, -20° c |  |  |                      |

| NO  | Test name                  | Sample type    | S.Vol (ml) | Assay method | Testing date | Storage                                   | Transport       | Preparation before sampling                                    | Reject  | Others |
|-----|----------------------------|----------------|------------|--------------|--------------|---|-----------------|--|---|--------|
| 467 | Sweat test                 | Sweat          |            | Automation   | Daily        | 2 days at 2-8°c                           | at 2-8°c        |  |   |        |
| 468 | Synovial fluid culture     | Synovial fluid | 2          | Aerobic      | Daily        | The same time must be analysis            | at 2-8°c        | Avoid using antibiotic   |   |        |
| 469 | T3                         | S, PE, PH      | 0.5        | CLIA-ECLIA   | Daily        | 1 day at 2-8°c for longer time at -20°c   | at 2-8°c, -20°c | Notice to hormonal treatment & gestation                       |   |        |
| 470 | T3 up                      | S, PE, PH      | 0.5        | CLIA-ECLIA   | odd days     | 1 day at 2-8°c for longer time at -20°c   | at 2-8°c, -20°c | Fasting  |   |        |
| 471 | T4                         | S, PE, PH      | 0.5        | CLIA-ECLIA   | Daily        | 2 days at 2-8°c for longer time at -20°c  | at 2-8°c, -20°c | Notice to hormonal treatment & gestation                       |   |        |
| 472 | Tacrolimus                 | WB(E)          | 2          | CLIA         | even day     | 4 days at 2-8°c<br>Ur.:1 month at -20°c   | at 2-8°c, -20°c |  | <ul style="list-style-type: none"> <li>• heat-inactivated specimens</li> <li>• obvious microbial contamination</li> </ul> |        |
| 473 | Temjesic (drug abuse)      | WB, BF         | 2,5        | TLC          | by contact   | 4 days at 2-8°c Ur.:<br>1 months at -20°c | at 2-8°c, -20°c |  |   |        |
| 474 | Teophyline (drug abuse)    | WB, BF         | 2,5        | TLC          | by contact   | 4 days at 2-8°c Ur.:<br>1 months at -20°c | at 2-8°c, -20°c |  |   |        |
| 475 | Testostrone                | S, PE, PH      | 0.5        | CLIA-ECLIA   | even daye    | 5 days at 2-8°c for longer time at -20°c  | at 2-8°c, -20°c | The best time for sampling is 6-10 am. Fasting is recommended. |   |        |
| 476 | THC (tetrahydrocannabinol) | WB, BF         | 2,5        | TLC          | Daily        | 4 days at 2-8°c Ur.:<br>1 months at -20°c | at 2-8°c, -20°c |  |   |        |

| NO  | Test name                         | Sample type | S.Vol (ml) | Assay method    | Testing date | Storage                                      | Transport       | Preparation before sampling  | Reject | Others |
|-----|-----------------------------------|-------------|------------|-----------------|--------------|--|-----------------|--|--------|--------|
| 477 | Thiethylprazine (drug abuse)      | WB, BF      | 2,5        | TLC             | by contact   | 4 days at 2-8°c Ur.:<br>1 months<br>at -20°c | at 2-8°c, -20°c |  |        |        |
| 478 | Thioridazin (drug abuse)          | WB, BF      | 2,5        | TLC             | by contact   | 4 days at 2-8°c Ur.:<br>1 months<br>at -20°c | at 2-8°c, -20°c |  |        |        |
| 479 | Throat Culture                    | Throat swab |            | Aerobic culture | Daily        | The same time must be analysis               | at RT           | Avoid using antibiotic   |        |        |
| 480 | Thyroglobulin                     | S           | 0.5        | ECLIA           | Daily        | 1 day at 2-8°c for longer time<br>at -20 °c  | at 2-8°c, -20°c | Abstain from doing this test after FNA form thyroid, thyroid surgery and treatment with radioactive substance. |        |        |
| 481 | Thyroid Microsomal Ab             | S, PE, PH   | 0.5        | ECLIA           | 7 days       | 1 day at 2-8°c for longer time<br>at -20 °c  | at 2-8°c, -20°c |  |        |        |
| 482 | Thyroid peroxidase (TPO Ab)       | S, PE, PH   | 0.5        | ECLIA           | even daye    | 1 day at 2-8°c for longer time<br>at -20 °c  | at 2-8°c, -20°c |  |        |        |
| 483 | Thyroxine binding globuline (TBG) | S           | 0.5        | Elisa           | 15 days      | 1 day at 2-8°c for longer time<br>at -20 °c  | at 2-8°c, -20°c |  |        |        |
| 484 | TIBC                              | S           | 0.5        | Colorimetry     | Daily        | 4 day at 2-8°c for longer time<br>at -20 °c  | at 2-8°c, -20°c | Fasting  |        |        |
| 485 | Tolamin (drug abuse)              | WB, BF      | 2,5        | TLC             | by contact   | 4 days at 2-8°c Ur.:<br>1 months<br>at -20°c | at 2-8°c, -20°c |  |        |        |
| 486 | Topomax (Topiramate)              | S           | 0.5        | TLC             | wen          | 2 days at 2-8°c for longer time<br>at -20°c  | at 2-8°c, -20°c |  |        |        |

| NO  | Test name                   | Sample type     | S.Vol (ml) | Assay method | Testing date | Storage  | Transport       | Preparation before sampling | Reject   | Others                          |
|-----|-----------------------------|-----------------|------------|--------------|--------------|--|-----------------|-----------------------------|--|---------------------------------|
| 487 | Total lipid                 | S               | 1          | Photometric  | Daily        | 5 days at 2-8°c for longer time at -20°c         | at 2-8°c, -20°c | Fasting                     | Hemolysis, Icteric, Lipemic  | Be separated quickly            |
| 488 | Toxo Avidity                | U (see table 1) | 10         | Chemical     | by contact   | 45 days 2-8°c for longer time at -20°c           | at 2-8°c, -20°c |                             |  |                                 |
| 489 | Toxo Avidity                | S               | 0.3        | Elisa        | 15 days      | 4 days at 2-8°c 1 months at -20°c                | at 2-8°c, -20°c | Not recommended             | hemolysis, icteric, lipemic  | avoid repeat freeze/thaw cycles |
| 490 | Toxocara Ab (IgG)           | S, PE, PH, BF   | 0.3        | Elisa        | 15 days      | 7 days at 2-8°c 3 months at -20°c                | at 2-8°c, -20°c | Not recommended             | hemolysis, icteric, lipemic  | avoid repeat freeze/thaw cycles |
| 491 | Toxoplasma Ab (IgG)         | S, PE, PH       | 0.5        | CLIA         | mon&Thu      | 1 week at 2-8°c for longer time at -20°          | at 2-8°c, -20°c |                             |  |                                 |
| 492 | Toxoplasma Ab (IgM)         | S, PE, PH       | 0.5        | CLIA         | mon&Thu      | 1 week at 2-8°c for longer time at -20°          | at 2-8°c, -20°c |                             |  |                                 |
| 493 | Toxoplasma PCR              | See table       | See table  | PCR          | 15 days      | 3 days, at RT-7 days at 2-8°c, 2 months at -20°c | at 2-8°c        | Not recommended             | incorrect anti coagulant (heparin), formalinized fluids, tissue (formalin Fixes), calcium-alginate tipped, wood and gel media swab |                                 |
| 494 | Transferrin                 | S, PE, PH       | 0.5        | Imm.turb.    | Daily        | 5 days at 2-8°c for longer time at -20°c         | at 2-8°c, -20°c |                             |  |                                 |
| 495 | Transterrin saturation      | S, PE, PH       | 0.5        | TLC          | Daily        | 4 days at 2-8°c Ur.: 1 months at -20°c           | at 2-8°c, -20°c |                             |  |                                 |
| 496 | Tranlycpromine (drug abuse) | WB, BF          | 2,5        | TLC          | by contact   | 4 days at 2-8°c Ur.: 1 months at -20°c           | at 2-8°c, -20°c |                             |  |                                 |

| NO  | Test name                   | Sample type | S.Vol (ml) | Assay method | Testing date | Storage  | Transport       | Preparation before sampling                          | Reject                       | Others |
|-----|-----------------------------|-------------|------------|--------------|--------------|--|-----------------|--|------------------------------|--------|
| 497 | Trazodone (drug abuse)      | WB, BF      | 2,5        | TLC          | by contact   | 4 days at 2-8°c Ur.:<br>1 months at -20°c  | at 2-8°c, -20°c |  |                              |        |
| 498 | Tremadol (drug abuse)       | WB, BF      | 2,5        | TLC          | Daily        | 4 days at 2-8°c Ur.:<br>1 months at -20°c  | at 2-8°c, -20°c |  |                              |        |
| 499 | Trifluoprazine (drug abuse) | WB, BF      | 2,5        | TLC          | by contact   | 4 days at 2-8°c Ur.:<br>1 months at -20°c  | at 2-8°c, -20°c |  |                              |        |
| 500 | Triglycerides               | S, PH       | 0.5        | Photometric  | by contact   | 5 days at 2-8°c for longer time at -20°c   | at 2-8°c, -20°c | Fasting 12 hrs. Abstain using alcohol before 3 days. | Specimens containing barium. |        |
| 501 | Trimipramine (drug abuse)   | WB, BF      | 2,5        | TLC          | by contact   | 4 days at 2-8°c Ur.:<br>1 months at -20°c  | at 2-8°c, -20°c |  |                              |        |
| 502 | Troponine I                 | S, PE, PH   | 0.5        | CLIA         | Daily        | 2 days at 2-8°c for longer time at -20°c   | at 2-8°c, -20°c |  |                              |        |
| 503 | Trypsine activity           | St          | 1.0 gr     | Chemical     | 15 days      | The same time must be analysis   | -20°c           |  |                              |        |
| 504 | TSH                         | S, PE, PH   | 0.5        | CLIA-ECLIA   | Daily        | 1 day at 2-8°c for longer time at -20°c<br>1 day at 2-8°c for longer time at -20°c | at 2-8°c, -20°c | Notice to hormonal & chemotherapy drugs              | Hemolysis, Lipemic           |        |
| 505 | TTG Ab (IgA)                | S           | 0.5        | Elisa        | Sat&sun&wed  | 5 days at 2-8°c for longer time at -20°c   | at 2-8°c, -20°c |  |                              |        |
| 506 | TTG Ab (IgG)                | S           | 0.5        | Elisa        | Sat&sun&wed  | fresh plasma:1 day at 2-8°c  | at 2-8°c, -20°c |  |                              |        |



| NO  | Test name                       | Sample type     | S.Vol (ml) | Assay method    | Testing date | Storage                                 | Transport       | Preparation before sampling                     | Reject             | Others   |
|-----|---------------------------------|-----------------|------------|-----------------|--------------|---|-----------------|---|--------------------|--|
| 507 | Tyrosine                        | PE              | 1          | HPLC            | sun&wed      | fresh plasma:1 day at 2-8°c             | at 2-8°c, -20°c | fasting   | hemolysis          |  |
| 508 | Urea                            | S,U             | 0.5,5      | Photometric     | Daily        | 1 week at 2-8°c for longer time at -20° | at 2-8°c, -20°c | Nephrotoxic drugs will change blood urea level. |                    |  |
| 509 | Ureaplasma urealyticum culture  | BF              |            | Aerobic culture | Daily        | The same time must be analysis          | at 2-8°c        | Avoid using antibiotic                          |                    | avoid freeze/thaw cycles                               |
| 510 | Urethral dis. culture           | Urethral dis.   |            | Aerobic         | Daily        | The same time must be analysis          |                 | Avoid using antibiotic                          |                    |  |
| 511 | Uric acid                       | S, PE, PH, U    | 0.5,5      | Colorimetry     | Daily        | 1 week at 2-8°c for longer time at -20° | at 2-8°c, -20°c | Abstain using salicylates before few days.      |                    |  |
| 512 | Urine Culture                   | U (see table 1) | 5          | AerobicAn.      | Daily        | The same day must be analysis           | at RT           | Avoid using antibiotic                          |                    |  |
| 513 | Urine analysis                  | U (see table 1) | 5          | Colorimetry     | Daily        | 2 hrs. at RT, 1 day at 2-8°c            | at RT           |   |                    |  |
| 514 | Vaginal culture                 | Vaginal dis.    |            | AerobicAn.      | Daily        | The same timeshould be tested.          |                 | Avoid using antibiotic                          |                    |  |
| 515 | Valporic acid(sodium valproate) | S               | 1          | HPLC            | Daily        | 7 days at 2-8°c 2 months at -20°c       | at 2-8°c, -20°c | Not recommended                                 | hemolysis          | Be separated quickly.avoid repeated freeze/thaw cycles |
| 516 | VDRL                            | S, BF           | 0.5        | Flocculation    | Daily        | 7 days at 2-8°c, 3 months at -20°c      | at 2-8°c, -20°c | Not recommended                                 | Hemolysis, Icteric | avoid freeze/thaw cycle                                |

| NO  | Test name                   | Sample type      | S.Vol (ml) | Assay method  | Testing date    | Storage   | Transport       | Preparation before sampling   | Reject   | Others  |
|-----|-----------------------------|------------------|------------|---------------|-----------------|---|-----------------|---|--|---|
| 517 | Vit.A                       | S                | 0.5        | HPLC          | Daily           | 12 days at 2-8°c & 72 hours 15-30°c & 1 months-20°c or colder     | at 2-8°c, -20°c | Fasting. Sample collecting is done in cold tube ,syringe .Abstain using alchol 24 hrs. before sampling.   | Hemolysis, Icteric   | be separated quickly. The oxalic acid preservative may interfere with other tests |
| 518 | Vit.E                       | S                | 0.5        | HPLC          | Daily           | 12 days at 2-8°c & 72 hours 15-30°c & 1 months-20°c or colder     | at 2-8°c, -20°c | Fasting, abstain from alchol for 24 hrs.  |  |   |
| 519 | Vitamin B12 (cobalamin)     | S                | 0.5        | ECLIA         | Daily           | 2 weeks at 2-8°c for longer time at -20°c (dark place)            | at 2-8°c, -20°c |   |  | avoid freeze/thaw cycle   |
| 520 | VLDL                        | S, PH            | 0.5        | Electrophores | Daily           | 1 week at 4°c for longer time at -20°c                            | at 2-8°c, -20°c |   | Hemolysis, Clotting, Frozen, Incorrect anticoagulant   |   |
| 521 | Vitamin D (25OH)            | S, PE, PH        | 1          | HPLC          | Daily           | 12 days at 2-8°c & 72 hours 15-30°c & 1 months at -20°c or colder | at 2-8°c, -20°c |   | specimens with the following conditions: heat-inactivated pooled grossly hemolyzed (> 500 mg/dL hemoglobin) obvious microbial contamination cadaver specimens or any other body fluids |   |
| 522 | VMA                         | U (see table 1 ) | 5          | Col.chrom.    | mon & Thu & wen | 6hrs RT, 14 days-20   | at 2-8°c, -20°c | Abstain using coffee, cacao, chocolate, blood pressure drugs, guanidine analogue drugs, mono amine oxidase inhibitors 3 days prior to urine collection. |  |   |
| 523 | Von Willebrant Factor (VWF) | PC               | 0.5        | Elisa         | 15 days         | 6hrs RT, 14 days-20   | at -20°c        |   |  | Be separated quickly-Hemolysis, Clotting, Frozen, Incorrect anticoagulant         |

| NO  | Test name             | Sample type | S.Vol (ml) | Assay method  | Testing date | Storage  | Transport       | Preparation before sampling | Reject   | Others                                   |
|-----|-----------------------|-------------|------------|---------------|--------------|--|-----------------|-----------------------------|--|--|
| 524 | VZV Ab (IgG)          | S, BF       | 0.5        | Elisa         | Daily        | 2 days at 2-8°c for longer time at -20°c         | at 2-8°c, -20°c |                             |  |  |
| 525 | VZV Ab (IgM)          | S, BF       | 0.5        | Elisa         | Daily        | 3 days. at RT-7 days at 2-8°c, 2 month at -20°c  | at 2-8°c, -20°c |                             |  |  |
| 526 | VZV PCR               | See table   | See table  | PCR           | 15 days      | 3 days. at RT-7 days at 2-8°c, 2 months at -20°c | at 2-8°c        | Not recommended             | incorrect anti coagulant(heparin), formalinized fluids,tissue (formalin Fixes),calcium-alginate tipped,wood and gel media swab | Be separated in refrigerated centrifuge. |
| 527 | Warfarin (drug abuse) | WB, BF      | 2,5        | TLC           | by contact   | 4 days at 2-8°c Ur.: 1 months at -20°c           | at 2-8°c, -20°c |                             |  |  |
| 528 | WBC                   | WB(E)       | 1          | Cell counter  | Daily        | 1 day at RT, 3 days at 2-8°c                     | at RT,at 2-8°c  |                             |  |  |
| 529 | WBC crossmatch Donar  | WB(H or D)  | 10         | Agglutination | Daily        | 12 hours at 2-8°c                                | at 2-8°c        |                             | Hemolysis, Icteric,Lipemic   | 529                                      |
| 530 | WBC crossmatch panel  | WB(H or D)  | 10         | Agglutination | Daily        | 12 hours at 2-8°c                                | at 2-8°c        |                             |  |  |
| 531 | Widal agg Test        | S, BF       | 0.5        | Agglutination | Daily        | 7 days at 2-8°c 3 months at -20°c                | at 2-8°c, -20°c |                             |  | Transfer samples to be frozen            |
| 532 | Wound culture         | Wound       |            | AerobicAn.    | Daily        | The same time must be analysis                   | at RT           |                             | Hemolysis, Clotting,Frozen, Incorrect anticoagulant  |  |
| 533 | Wright agg test       | S, BF       | 0.5        | Agglutination | Daily        | 7 days at 2-8°c 3 months at -20°c                | at 2-8°c, -20°c |                             |  | Transfer samples to be frozen            |

| NO  | Test name              | Sample type   | S.Vol (ml) | Assay method | Testing date | Storage                                  | Transport       | Preparation before sampling  | Reject            | Others |
|-----|------------------------|---------------|------------|--------------|--------------|--|-----------------|--|-------------------|--------|
| 534 | Xylose absorption test | S, U          | 0.5,5      | Chemical     | by contact   | 4 days at 2-8°c 1 months at -20°c        | at 2-8°c, -20°c |  |                   |        |
| 535 | Zinc                   | S, U, BF      | 0.5,5      | Atomic abs   | Daily        | 7 days at 2-8°c 3 months at -20°c        | at 2-8°c, -20°c | Upon the advice of their physician, patients should be encouraged to discontinue nutritional supplements, vitamins, minerals, and nonessential over-the-counter medications for one week prior to sample draw. |                   |        |
| *   | Alpha 1 Anti Trypsin   | stool         | 1gr        |              | 10 days      | 3 days at RT                             | at 2-8°c        |  | Not recommended   |        |
| *   | HSV1. G                | S, PE, PH, BF | 0.5        | Elisa        | Daily        | 1 week at 2-8°c for longer time at -20°c | at 2-8°c, -20°c |  | hemolysis,icteric |        |
| *   | HSV1. M                | S, PE, PH, BF | 0.5        | Elisa        | Daily        | 1 week at 2-8°c for longer time at -20°c | at 2-8°c, -20°c |  | hemolysis,icteric |        |
| *   | HSV1. G                | S, PE, PH, BF | 0.5        | Elisa        | Daily        | 1 week at 2-8°c for longer time at -20°c | at 2-8°c, -20°c |  | hemolysis,icteric |        |
| *   | HSV1. M                | S, PE, PH, BF | 0.5        | Elisa        | Daily        | 1 week at 2-8°c for longer time at -20°c | at 2-8°c, -20°c |  | hemolysis,icteric |        |

WB : Whole blood    S : Serum    U : Urine    BF :Body fluids    H : Heparin    D :Defibrinate    PH :Heparinized plasma    PE : Plasma (EDTA)    PC:Plasma (citrate)

