

آزمایشگاه پاتوبیولوژی شهریار

| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|--------------|--|--------------|---|-------------|------------|-------------|---|------------------------|-----------------------------------|--|
| Immunology | Anti H.I.V (Type 1&2 and P24 Ag) | Elisa | S ,PE | 0.5 | odd day | next day | Less than 5 days at 2-8°C for longer time at -20°C | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | --- |
| Immunology | Anti Microsomal Ab | Elisa | S | 0.5 | 6day | 6day | 1 day at 2-8°C for longer time at -20 °C | at 2-8°C, at -20°C | --- | --- |
| Immunology | Anti DNA (double-stranded) | Elisa | S | 0.5 | Sun | next day | 7days at 2-8°C, 3months at -20°C | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | Avoid repeated freeze / thaw cycles |
| Biochemistry | Acid Phosphatase (Total) | Colorimetry | S (Added 30 Ul acetic acid 1.5 mol/L to 1 ml of Serum and mix) | 0.5 | 8day | 8day | Immediately (up to 1hour) | up to 0.5 hrs at RT | Hemolysis, Icteric, Lipemic | Fasting is recommended |
| Immunology | Anti SS-A (Ro) Ab Anti SS-B (La) Ab | Elisa | S | 0.5 | 5day | 50day | 5 days at 2-8°C, for longer time at -20°C | at 2-8°C, at -20°C | Hemolysis | --- |
| Immunology | Anti TTG Ab (IgA) | Elisa | S | 0.5 | Mon,Sat | next day | 7 days at 2-8°C, 3months at -20°C | at 2-8°C, at -20°C | Hemolysis | Avoid repeated freeze / thaw cycles |

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| Metabolic disorders | Amino Acid | HPLC TLC | U PE | U:10 PE:1 | 10day 7day | 10day 7day | U: 1 day at 2-8 °C, PE: 2 weeks at -20 °C | U: at 2-8 °C, PE: at -20 °C | Hemolysis, Icteric, Lipemic | Fasting is recommended. Urine must be fresh. Avoid freeze/ thaw cycles Be separated quickl |
| Immunology | Anti Gliadin Ab (IgG) | Elisa | S | 0.5 | 9day | 9day | 5 days at 2-8 °C, longer time at -20 °C | at 2-8 °C, at -20 °C | Hemolysis | Fasting is recommended |
| Biochemistry | Acid Phosphatase Prostat | Colorimetry | S (Add 30 µl acetic acid 1.5 mol/L to 1 ml of and mix) | 0.5 | Daily | 2day | Immediately (up to 1hour) | up to 0.5 hrs at RT | Clotting sample, Hemolysis, Lipemic | Fasting is recommended |
| Tumor Markers | ALpha Feto Protein | CLIA | S,PC, PE,Heparin | 0.5 | Mon,Sat, Thu | next day | 3 days at 2-8 °C or longer time at -20 °C | at 2-8 °C, at -20 °C | --- | --- |
| Immunology | Anti Neutralizing | Elisa | S | 1 | 17day | 17day | 2days at 2-8 °C, >2Days: -20 °C Avoid Freeze thaw | at 2-8 °C, at -20 °C | Hemolysis, Icteric, Lipemic | --- |
| Specific Biochemistry | A.C.E | Kineti | S,BF | 0.5 | 7day | 7day | Immediately at -20 °C (up to Analyse) | at -20 °C | Hemolysis | Serum or plasma must be seperated as soon as possible Avoid using medicatio |
| Immunology | A.S.C.A (IgG) A.S.C.A (IgA) | Elisa | S | 0.3 | 10day | 10day | 3 days at 2-8 °C for longer time at -20 °C | at 2-8 °C, at -20 °C | Hemolysis, Icteric, Lipemic | Not recommended |

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| Hormone | A.C.T.H | ECL | PE | 0.5 | Thu | 1day | 6 hrs at 2-8°C for longer time at -20° | 2 hrs at 2-8°C, -20°C | Hemolysis | Fasting ,Avoid stres Rapidly seperated (at 2-8°C), Refrigerated centrifuge must be used Fasting ,Avoid stres |
| Body Fluid Examination | A.D.A | Enzymatic | S,PE,CSF,BF | 0.5 | Daily | 2day | 5 days at 2-8°C 1 month at -20°C | at 2-8°C, at -20°C | --- | --- |
| Microbiology | Abscess Culture | --- | Secretions | --- | 8day | 8day | 24 hrs at RT | 24 hrs at RT | --- | --- |
| Microbiology | Abscess Direct Smear | --- | Secretions | --- | 2day | 2day | 24 hrs at RT | 24 hrs at RT | --- | --- |
| Hormone | Acyl Carnetine Prophail | --- | PE | 1.5 CC حداقل | 35day | 35day | at -20°C | at -20°C | --- | --- |
| Hormone | Acetaminophen | HPLC | S | 1 | 9day | 9day | 7 days at 2-8°C, 2 months at -20°C | at 2-8°C at -20°C | Hemolysis | --- |
| Hormone | Adiponectin | Elisa | S | 1 | 21day | 21day | 5 days at 2-8°C, 1month at -20°C | at 2-8°C, at -20°C | Gross Hemolysis | --- |

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| Hormone | Adrenalin | Urine:HPLC S:Elisa | PH,PE,S,U | 1,10 | 21day | 21day | plasma: 1month at -20°C u:7day at 2-8°C 1 month at -20°C plasma freeze | plasma: at -20°C, urine: at 2-8°C, -20°C | Hemolysis, Icteric, Lipemic | --- |
| Hormone | AFP | ECL,CLIA | S ,PE, PH,PC | 0.5 | Mon,Sat, Thu | next day | 7 days at 2-8°C, 3months at -20°C | at 2-8°C, at -20°C | Hemolysis | --- |
| Biochemistry | AlbuminSerum | Photometric | S, PE, PH | 0.5 | Daily | next day | 7 days at 15-25°C, 1month at 2-8°C 3months at -20°C | at 2-8°C, at -20°C | Hemolysis mild & gross, Icteric gross, lipemic gross | --- |
| Biochemistry | AldolaseSerum | Enzymatic | S | 0.5 | 7day | 7day | Rapidly at -20° | at -20°C | Hemolysis, Icteric, Lipemic | Serum or plasma must be seperated as soon as possible. |
| Hormone | Aldosterone | Elisa | S,U | 0.5 | 7day | 7day | Rapidly at -20 °C | at -20°C | Clotting sample, Hemolysis | Avoid using medication (Anti Blood pressure, Diuretic, ...) 2 weeks prior to samplin Transport on ice. Avoid repeated freeze/thaw vcycles وضعیت نشسته و خوابیده بیمار گزارش شود |
| Biochemistry | Alk.ph | Photometric | S,PH | 0.5 | Daily | next day | 7days at 2-8°C, 2months at -20°C | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | Avoid repeated freeze / thaw cycles |
| Immunology | Alpha 1 Anti Trypsin | Enzymatic | S, PE | 0.5 | 13day | 13day | 1 week at 2-8°C, for longer time at -20°C | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | --- |

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| Hormone | Ammonia | Enzymatic | PE | 0.5 | 4day | 4day | 20 min at 4 °c, 1 day at -20 °c, for longer time at -70 °c | at -20°c | --- | Refrigerated Centrifuge |
| Serology | Amoebiasis Ab | Elisa | S | 0.5 | 7day | 7day | 2 days at 2-8°c | at 2-8°c | Hemolysis, Icteric, Lipemic | --- |
| Biochemistry | Amylase | Enzymatic, Colorimetry | S | 0.5 | 1day | 1day | 1 week at 25 °c 6 month at 4 °c | at 2-8°c, at -20°c | Hemolysis, Icteric, Lipemic | Avoid repeated freeze / thaw cycles Fasting is recommended |
| Hormone | Androstendione | Elisa | S | 0.5 | 8day | 8day | Rapidly at -20 °c | at -20°c | Gross Hemolysis | Fasting is recommended |
| Hormone | Anti ADH Ab | RIA | S | 5 | 30day | 30day | 1 month at -20°c CRITICAL FROZEN | at -20°c | --- | Avoid repeated freeze/thaw cycles |
| Hormone | Anti Beta 2 Glycoprotein I(IgM) | CLIA | S | 0.5 | 10day | 10day | 1 day at 2-8°c for longer time at -20 ° | at 2-8°c, at -20°c | Hemolysis, Icteric, Lipemic | Avoid repeated freeze/thaw vcycles |
| Hormone | Anti Beta 2 Glycoprotein I(IgG) | CLIA | S | 0.5 | 10day | 10day | 1 day at 2-8°c for longer time at -20 ° | at 2-8°c, at -20°c | Hemolysis, Icteric, Lipemic | Avoid repeated freeze/thaw vcycles |
| Hormone | Anti Beta 2 Glycoprotein(IgA) | Elisa | S,PE | 0.5 | 7day | 7day | 1 day at 2-8°c for longer time at -20 ° | at 2-8°c, at -20°c | --- | Avoid repeated freeze/thaw vcycles |
| Immunology | Anti Borrelia Ab(IgM) | CLIA | S,PE,PC,C | 0.5 | 10day | 10day | 1 week at 2-8°c for longer time at -20 ° | at 2-8°c, at -20°c | Hemolysis, Icteric, Lipemic | --- |

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|------------|---------------------------------|--------------|--------------|-------------|------------|-------------|--|----------------------|-----------------------------|---|
| Immunology | Anti Borrelia Ab (IgG) | CLIA | S,PE,PC,C | 0.5 | 10day | 10day | 1 week at 2-8 °c for longer time at -20 ° | at 2-8 °c, at -20 °c | Hemolysis, Icteric, Lipemic | --- |
| Immunology | Anti Brucella Ab (IgM) | Elisa | PE,S | 0.5 | 10day | 10day | 2 days at 2-8 °c, for longer time at -20 °c | at 2-8 °c, at -20 °c | Hemolysis, Icteric, Lipemic | Avoid repeated freeze / thaw cycles protect the light |
| Immunology | Anti Brucella Ab (IgG) | Elisa | PE,S | 0.5 | 10day | 10day | 2 days at 2-8 °c, for longer time at -20 °c | at 2-8 °c, at -20 °c | --- | Avoid repeated freeze / thaw cycles protect the light |
| Immunology | Anti C.C.P | Elisa | PE,PC, S, PH | 0.5 | Wed | next day | 14 days at 2-8 °c | at 2-8 °c | Hemolysis, Lipemic | --- |
| Immunology | Anti Cardiolipin Ab (IgG) (IgM) | Elisa | S | 0.5 | 7day | 7day | 5 days at 2-8 °c, longer time at -20 °c | at 2-8 °c, at -20 °c | Hemolysis, Icteric, Lipemic | Avoid repeated freeze / thaw cycles |
| Immunology | Anti Centromer Ab | Elisa | S | 0.5 | 10day | 10day | 5 days at 2-8 °c for longer time at -20 °c | at 2-8 °c, at -20 °c | --- | --- |
| Immunology | Anti Chlamydia Ab (IgA) | Elisa | S | 1 | 8day | 8day | 1 day at RT, 7 days at 2-8 °c 3 months at -20 °c | at 2-8 °c, at -20 °c | --- | --- |
| Immunology | Anti Chlamydia Ab (IgG) | Elisa | S | 0.5 | 8day | 8day | 5 days at 2-8 °c for longer time at -20 °c | at 2-8 °c, at -20 °c | --- | --- |

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| Immunology | Anti Chlamydia Ab (IgM) | Elisa | S | 0.5 | Mon,Thu | 7day | 5 days at 2-8°C for longer time at -20°C | at 2-8°C, at -20°C | Hemolysis, Lipemic | --- |
| Immunology | Anti Diptheria Ab | Elisa | S | 0.5 | 13day | 13day | 7 days at 2-8°C, for longer time at -20°C | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | Avoid repeated freeze / thaw cycles |
| Hormone | Anti Desmoglein-1 | Elisa | S | 0.5 | 14day | 14day | 5 days at 2-8°C, 14 days at -20°C | at 2-8°C, at -20°C | Hemolysis, Lipemic | --- |
| Hormone | Anti Desmoglein-3 | Elisa | S | 0.5 | 14day | 14day | 5 days at 2-8°C, 14 days at -20°C | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | --- |
| Immunology | Anti Endomysial Ab (IgA) | IF | PE,S | 0.5 | 10day | 10day | 5 days at 2-8°C, for longer time at -20°C | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | Fasting is recommended |
| Immunology | Anti Endomysial Ab (IgG) | IF | PE ,S | 0.5 | 9day | 9day | 5 days at 2-8°C, for longer time at -20°C | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | Fasting is recommended |
| Immunology | Anti Fasciola Ab (IgG) | Elisa | S | 0.5 | 7day | 7day | 1 day at 2-8°C, for longer time at -20°C | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | Avoid repeated freeze / thaw cycles |
| Immunology | Anti Ganglioside (GM1) | Immunoblot | S | 1 | 14day | 14day | at -20°C | at -20°C | Gross: Hemolysis, Lipemic | Not recommended |

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| Hormone | Anti GAD | Elisa | S | 0.5 | 17day | 17day | 5 days at 2-8°C, longer time at -20°C | at 2-8°C, at -20°C | --- | --- |
| Immunology | Anti GBM Ab | IFA | S | 0.5 | 10day | 10day | 1 week at 2-8°C, for longer time at -20°C | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | --- |
| Immunology | Anti Gliadin Ab(IgA) | Elisa | S | 0.5 | 9day | 9day | 5 days at 2-8°C, longer time at -20°C | at 2-8°C, at -20°C | --- | Fasting is recommended |
| Immunology | Anti HTLV-(1+2) Ab | Elisa | S ,PE | 0.5 | 8day | 8day | 5 days at 2-8°C for longer time at -20°C | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | --- |
| Biochemistry | Anti Insulin Ab | Elisa | S | 0.5 | 17day | 17day | 7 days at 2-8°C, 3 months at -20°C | at 2-8°C, at -20°C | --- | --- |
| Immunology | Anti Jo-1 Ab | Elisa | S | 0.5 | 13day | 13day | should be stored at 2-8°C for up to 14 day | at 2-8°C | Hemolysis, Icteric, Lipemic | --- |
| Immunology | Anti MCV | Elisa | S | 1 | 13day | 13day | 4 hrs at RT 24hrs at 2-8°C | at -20°C | Hemolysis, Icteric, Lipemic | Avoid repeated freeze / thaw cycles |
| Immunology | Anti Measles Ab (IgG) | Elisa | S,CSF,BF | 0.5 | 10day | 10day | 4 days at 4°C for longer time at -20°C | at 4°C, at -20°C | Hemolysis, Icteric, Lipemic | Avoid repeated freeze / thaw cycles |
| Immunology | Anti Measles Ab (IgM) | Elisa | S,CSF,BF | 0.5 | Thu | 2day | 4 days at 4°C for longer time at -20°C | at 4°C, at -20°C | --- | Avoid repeated freeze / thaw cycles |

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| Immunology | Anti Mitochondrial Ab (AMA) | CLIA | S | 0.5 | 7day | 7day | 1 day at 2-8°C, for longer time at -20°C | at 2-8°C, at -20°C | Gross: Hemolysis, Lipemic | --- |
| Immunology | Anti MOG | IFA | S | 0.5 | 10day | 10day | 5 days at 2-8°C, 1 month at -20°C | at 2-8°C, at -20°C | --- | --- |
| Immunology | Anti MPO | Elisa | S | 0.5 | 6day | 6day | 14 days at 2-8°C | at 2-8°C | Hemolysis, Icteric, Lipemic | --- |
| Immunology | Anti Mullerian hormone | Elisa | S, PE, PH | 0.5 | 7day | 7day | 7 days at 2-8°C, 3months at -20°C | at 2-8°C, at -20°C | Hemolysis | Avoid repeated freeze / thaw cycles |
| Immunology | Anti mumps Ab (IgG) | Elisa | S,CSF | 0.5 | 10day | 10day | Analyse up to 48 hours,for longer time at -70°C | at RT | Hemolysis | Avoid repeated freeze / thaw cycles |
| Immunology | Anti mumps Ab (IgM) | Elisa | S,CSF | 0.5 | 10day | 10day | Analyse up to 48 hours,for longer time at -70°C | at RT | Gross Hemolysis | Avoid repeated freeze / thaw cycles |
| Immunology | Anti MUSK Ab | Elisa | S | 0.5 | 13day | 13day | 7 days at 2-8°C, 1 month at -20°C | at 2-8°C, at -20°C | Lipemic | --- |
| Immunology | Anti Nuclear Antibody | Elisa | S | 0.5 | 6day | 6day | 2days at 2-8°C, > at -20°C | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | --- |

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| Hormone | Anti phospholipase A2 receptor | IFA | S | 0.5 | 13day | 13day | 6 days at 2-8°c, 3 months at -20°c | at 2-8°c, at -20°c | Gross Hemolysis | Not recommended |
| Immunology | Anti phospholipid Ab (IgG),(IgM) | Elisa | S | 0.5 | 10day | 10day | 3 days at 2-8°c, for longer time at -20°c | up to 0.5 hrs at Rt | --- | Serum or plasma must be seperated as soon as possible |
| Metabolic disorders | Anti Pneumonia | Elisa | S | 2 cc | 14day | 14day | at -20°c | at -20°c | Hemolysis, Icteric, Lipemic | Avoid repeated freeze / thaw cycles |
| Hormone | Anti Platelet Ab | IFA | S | 0.5 | 13day | 13day | 1 week at 2-8°c for longer time at -20°c | at 2-8°c, at -20°c | Hemolysis, Icteric, Lipemic | --- |
| Immunology | Anti -PR3 | Elisa | S | 0.5 | 7day | 7day | should be stored at 2-8°c for up to 14 day | at 2-8°c, | Hemolysis | --- |
| Immunology | Anti RF IgG | Imm.Turb | S, PE, PH | 0.5 | 9day | 9day | 7 days at 2-8°c, 3months at -20°c | at 2-8°c, at -20°c | Hemolysis, Icteric, Lipemic | --- |
| Immunology | Anti RNP | Elisa | S | 0.5 | 9day | 9day | Should be stored at 2-8°c for up to 14day | at 2-8°c | Hemolysis, Icteric, Lipemic | --- |
| Immunology | Anti Rubella Ab (IgG) | ECL | S,PE | 0.5 | 13day | 13day | 1 week at 2-8°c for longer time at -20°c | at 2-8°c, at -20°c | Hemolysis, Icteric, Lipemic | --- |
| Immunology | Anti Rubella Ab (IgM) | Elisa | S | 0.5 | Thu,Sat | next day | 2days at 2-8°c, > at -20°c | at 2-8°c, at -20°c | --- | --- |

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| Immunology | Anti SCL-70 Ab Topoisomerase | Elisa | S | 0.5 | 16day | 16day | 1week at 2-8°C, for longer time at -20°C | at 2-8°C | Gross Hemolysis | --- |
| Hormone | Anti SLA | Elisa | S | 0.5 | 10day | 10day | 5 days at 2-8°C, 2months at -20°C | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | --- |
| Immunology | Anti Smith Ab (anti sm) | Elisa | S | 0.5 | 17day | 17day | 5 days at 2-8°C for longer time at -20°C | at 2-8°C, at -20°C | --- | --- |
| Immunology | Anti Smooth muscle Ab(ASMA) | IFA | S | 0.5 | 10day | 10day | 5 days at 2-8°C for longer time at -20°C | at 2-8°C, at -20°C | --- | --- |
| Immunology | Anti Sperm Ab | IF | S | 0.5 | Sun | 2day | 5 days at 2-8°C, for longer time at -20°C | at 2-8°C, at -20°C | --- | --- |
| Biochemistry | Anti Streptolysin O titre | Imm.Turb | S | 0.5 | Even days | next day | 2days at 2-8°C, 6months at -20°C | at 2-8°C at -20°C | Hemolysis, Icteric, Lipemic | --- |
| Immunology | Anti tetanus Ab | Elisa | S | 0.5 | 13day | 13day | 7 days at 2-8°C 3 month at -20°C | at 2-8°C, at -20°C | Hemolysis | Be separated quickly. Avoid freeze/ thaw cycle |
| Coagulation tests | Anti Thrombin III | Imm.Turb | PC | 2 | 7day | 7day | 8 hrs at 0°C , or longer time at -20° | up to 1 hrs at 0°C,-20°C | Hemolysis, Icteric, Lipemic | Serum or plasma must be seperated as soon as possible. Two times centrifugation is recommended. Avoid repeated freeze/thaw cycle |
| Immunology | Anti Thyroglobulin Ab | Elisa | S, PE | 0.5 | 7day | 7day | 1days at 2-8°C, for longer time at -20°C | at 2-8°C, at -20°C | --- | --- |

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| Immunology | Anti Toxoplasma Ab. (IFA) | Elisa | S | 0.5 | Tue | next day | 2days at 2-8°C, > at -20°C | at 2-8°C, at -20°C | --- | --- |
| Immunology | Anti Toxoplasma Ab.(IgG) | Elisa | S | 0.5 | Tue | next day | 2days at 2-8°C, > at -20°C | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | Avoid repeated freeze / thaw cycles |
| Immunology | Anti Toxoplasma Ab. (IgM) | Elisa | S | 0.5 | Tue | next day | 2days at 2-8°C, > at -20°C | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | --- |
| Immunology | Anti TPO Ab | ECL,CLIA | S, PE, BF | 0.5 | odd day | next day | 3 days at 2-8°C, 1months at -20°C | at 2-8°C at -20°C | Hemolysis, Lipemic | Be separated until 20-30 min. Avoid freeze / thaw cycle |
| Hormone | Anti Znt8 Ab | Elisa | S | 2 | 17 day | 17 day | 28 days at 2-8°C, 28 days at -20°C 72 days at 20-25°C | at 2-8°C, at -20°C at 20-25°C | Gross Hemolysis, Icteric, Lipemic | --- |
| Immunology | Anti TTG Ab(IgG) | Elisa | S | 0.5 | 8day | 8day | 7 days at 2-8°C, 3months at -20°C | at 2-8°C, at -20°C | Hemolysis | Avoid repeated freeze / thaw cycles |
| Coagulation tests | APCR (Leiden Factor) | Coagulation | PC | 1 | 8day | 8day | at -20°C | at -20°C | Hemolysis Incorrect anticoagulant | Avoid repeated freeze / thaw cycles Be separated quickly/Two times centrifugation is preferred. |
| Biochemistry | Apolipoprotein A1 | Imm.Turb | S | 0.5 | 10day | 10day | 7 days at 2-8°C, 1month at -20°C | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | Avoid repeated freeze / thaw cycles |

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| Biochemistry | Apolipoprotein B | Imm.Turb | S | 0.5 | 13day | 13day | 7 days at 2-8°C, 1 month at -20°C | at 2-8°C, at -20°C | --- | Avoid repeated freeze / thaw cycles |
| Microbiology | Ascite culture | Aerobic & Ana | Ascitic fluid | 10 | 8day | 8day | in the fastest time possible | 24 hrs at 4°C | Hemolysis | --- |
| Body Fluid Examination | Ascites ADA | Enzymatic | S,PE,CSF | 0.5 | 6day | 6day | 5 days at 2-8°C 1 month at -20°C | at 2-8°C, at -20°C | Gross Hemolysis | --- |
| Immunology | Aspergillus (IgG)(IgM) | Elisa | S | 0.5 | 13day | 13day | 5 days at 2-8°C, 2 month at -20°C | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | --- |
| Biochemistry | B2-Microglobulin | Elisa | S ,PE | 0.5 | 10day | 10day | 1 week at 2-8°C for longer time at -20°C | at 2-8°C, at -20°C | --- | Avoid repeated freeze/thaw cycle |
| Microbiology | Bal Culture & Sensitiv | --- | Secretions | --- | 8day | 8day | 24 hrs at 4°C | 24 hrs at RT | Less than 5cc | --- |
| Urine Analysis | Bence Jones Protein | --- | U | 5 | 2day | 2day | --- | --- | --- | --- |
| Hormone | Beta-Cross-Laps(B- CTX) | ECL | S | 0.5 | 13day | 13day | 8 hrs at 2-8°C, 14 days at -20°C | at 2-8°C, at -20°C | Hemolysis | --- |

آزمایشگاه پاتوبیولوژی شهریار

| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|--------------------------|---|--------------|-------------|-------------|------------|-------------|---|-----------------------|-----------------------------------|--|
| Hormone | Beta HCG-Serum | CLIA,ECL | S ,PE ,PC | 0.5 | Daily | next day | 3 days at 2-8°C, 12months at -20°C | at 2-8°C, at -20°C | --- | --- |
| Hormone | Beta titre | ECL,CLIA | S, PH ,PE | 0.5 | Daily | next day | 3 days at 2-8°C, 12months at -20°C | at 2-8°C, at -20°C | exposure to light ,Hemolysis | --- |
| Biochemistry | Bilirubin | Photometric | S,PH | 0.5 | Daily | next day | 1 day at RT. 7Days at 2-8°C, 3months at -20°C at dark place | at 2-8°C, at -20°C | --- | Avoid repeated freeze / thaw cycles |
| Molecular diagnosis | BK virus PCR | PCR | Sputum | (2ویال) 6 | 13day | 13day | at 2-8°C | at 2-8°C | --- | Fasting |
| Coagulation tests | Bleeding Time | Duce | --- | --- | Daily | next day | --- | --- | Hemolysis, Icteric, Lipemic | --- |
| Specific Biochemistry | Blood Ceruloplasmin | Imm.Turb | S ,PE | 0.5 | 7day | 7day | 7 days at 2-8°C, or longer time at -20°C | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | --- |
| Metabolic disorders | Urine Sugar Chromatography | TLC | U | 3 | 17day | 17day | 1 day at 2-8°C, 1 month at -20°C | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | Plasma sample be separated quickly |
| Metabolic disorders | Blood Amino Acid (HPLC) chromatography | HPLC | PE | 1 | 10day | 10day | 1 day at 2-8°C, 1 month at -20°C | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | Plasma sample be separated quickly |

آزمایشگاه پاتوبیولوژی شهریار

| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|-----------------------|-----------------------------|---|--------------------|------------------------------|-------------------|-------------------|--------------------------------------|---------------------------|---|---|
| Specific Biochemistry | Blood Copper | Photometric | S ,PE ,PH ,U(R&24) | 0.5,10 | s: 4day u:7day | s: 4day u:7day | 7 days at 2-8°C, 3months at -20°C | at 2-8°C, at -20°C | --- | --- |
| Microbiology | Blood Culture & sensitivity | Aerobic | WB | 10% کمتر از حجم کشت نرمال | 21day | 21day | The same time transported at 37°C | at RT< 1hrs | Hemolysis, Frozen, Clotting, Rouleaux formation | --- |
| Blood bank | Blood Group | cell type | WB,S | 3 | Daily | next day | 7 days at 2-8°C, 1day at RT | at 2-8°C, at RT | --- | --- |
| Genetics | Blood Karyotype | Gbanding | WB(H) | 5 | 13day | 13day | at 2-8°C, fast sending | at 2-8°C, fast sending | --- | عدم مصرف دارو یک هفته قبل از انجام آزمایش |
| Microbiology | Body Fluid direct Smear | --- | Body Fluid | --- | 2day | 2day | at RT | at RT | اتولیز بودن | --- |
| Parasitology | Bone marow Aspiration | Direct smear | Smear | Several Slid | Daily | 10day | at RT | at RT | اتولیز بودن | --- |
| Parasitology | Bone marow Biopsy | Sectioning and Staining | Tissue | --- | Daily | 10day | Unlimited after fixatio | --- | Hemolysis, Icteric, Lipemic | The volume of the fixable should be least at 5 times tissue volum |
| parasitology | Borrelia | بررسی لام خون محیطی و لان نوک انگشت | WB,S | 3 | 2day | 2day | 7 days at 2-8°C, 3months at -20°C | at 2-8°C, at -20°C | --- | --- |

آزمایشگاه پاتوبیولوژی شهریار

| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|---------------------|--------------------------------|---------------|-----------------------------|-------------|------------|-------------|--|-----------------------|--|-------------------------------------|
| Microbiology | Breast Culture | Aerobic & Ana | Breast dis | 5 | 8day | 8day | the fastest time after receiving the sample | at RT | --- | --- |
| Microbiology | Breast Direct Smear | --- | Breast dis | --- | 2day | 2day | the fastest time after receiving the sample | at RT | Hemolysis, Icteric | --- |
| Biochemistry | BS | Photometric | S, PH ,PE | 0.5 | Daily | next day | 1 day at 20-25°C 7day at 4-8°C | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | --- |
| Molecular diagnosis | BCR-ABL (p190-p210)Qualitative | PCR | WB (E), مایع مغز استخوان | 7 | 10day | 10day | 2 days at 2-8°C | at 2-8°C | Hemolysis, Frozen, Clotting, Incorrect anticoagulant | همراه فرم ارسال گردد |
| Biochemistry | BUN | Turbidimetric | S | 0.5 | Daily | next day | 3 months at -20°C 15 days at 20-25°C, 3months at 4-8°C, | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | --- |
| Immunology | C4 | Imm.Turb | S, PE ,PH | 0.5 | Thu,Sat | next day | 7 days at 2-8°C, 1months at -20°C (Definitely in the freezer) | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | Avoid repeated freeze / thaw cycles |
| Tumor Markers | CA 135 | CLIA | S | 0.5 | 5day | 5day | 7 days at 2-8°C 3 months at -20°C | at 2-8°C, at -20°C | Clot | --- |
| Tumor Markers | C.E.A | CLIA,ECL | S,PE | 0.5 | Tue | next day | 5 days at 2-8°C, 3months at -20°C | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | --- |

آزمایشگاه پاتوبیولوژی شهریار

| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|---------------|-----------------------|---------------|-------------|-------------|------------|-------------|---|--------------------------------|-----------------------------|-------------------------------------|
| Microbiology | C.S.F Culture for B.K | Aerobic & Ana | CSF | 1 | 60day | 60day | The same time must be tested | at RT | Hemolysis, Icteric, Lipemic | Avoid repeated freeze / thaw cycles |
| Immunology | C1 Inhibitor | Imm.Turb | S | 0.5 | 10day | 10day | Immediately for longer time at -70°C | up to 0.5 hrs at RT -70°C | Hemolysis, Icteric, Lipemic | Avoid repeated freeze / thaw cycles |
| Immunology | C3 | Imm.Turb | S, PE ,PH | 0.5 | Thu,Sat | next day | 7 days at 2-8°C, 1months at -20°C (Definitely in the freezer) | at 2-8°C, at -20°C | --- | Avoid repeated freeze / thaw cycles |
| Biochemistry | Ca (Ionized) | ISE | S | 0.5 | Daily | 1day | 7 day at 20-25°C, 3week 4-8°C, 8month at -20°C | at 20-25°C, at 4-8°C, at -20°C | Hemolysis, Icteric, Lipemic | Avoid repeated freeze / thaw cycles |
| Tumor Markers | CA 125 | CLIA,ECL | S | 0.5 | Tue | next day | 5 days at 2-8°C, 3 months at -20°C | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | Avoid repeated freeze / thaw cycles |
| Tumor Markers | CA 15-3 | ECL | S | 0.5 | Tue | next day | 7 days at 2-8°C, 3 months at -20°C | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | --- |
| Tumor Markers | CA 19-9 | ECL,ECL | S, PE | 0.5 | Tue | next day | 7 days at 2-8°C, 3 months at -20°C | --- | Hemolysis, Icteric, Lipemic | Avoid repeated freeze / thaw cycles |
| Tumor Markers | CA 242 | Elisa | S,PE,B | 0.5 | Sat | 2day | 1 day at 2-8°C, for longer time at -20°C | at 2-8°C, at -20°C | Hemolysis, (Mild, Gross) | Avoid repeated freeze / thaw cycles |

آزمایشگاه پاتوبیولوژی شهریار

| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|---------------|---------------|--------------|-------------|-------------|------------|-------------|--|---|------------------------------------|---|
| Tumor Markers | CA 72-4 | ECL | S,PE | 0.5 | Tue | 11day | 1 day at 2-8 °c, for longer time at -20 °c | at 2-8 °c, at -20 °c | --- | --- |
| Serology | CH50 | Elisa | S | 0.5 | 5day | 5day | Rapidly at -20 °c | at -20 °c | Hemolysis, Icteric, Lipemic | Avoid repeated freeze / thaw cycles |
| Genetics | CALR | PCR | WB(EDTA) | 5 | 13day | 13day | at 2-8 °c | at 2-8 °c | Hemolysis, Icteric, Lipemic | فرم های مولکولی و نتایج تست CBC همراه مدارک شرح حال بیمار ارسال گردد |
| Hormone | Calcitonin | CLIA | S | 0.5 | 10day | 10day | 4 days at 2-8 °c Ur.: 1 month at -20 °c | at 2-8 °c, at -20 °c | Hemolysis, Icteric, Lipemic | Serum or plasma must be separated as soon as possible. Rapidly separated (at 2-8 °) Fasting |
| Biochemistry | Calcium | Colorimetry | S,U 24,U | 0.5 | Daily | 1day | 7 days at 20-25 °c, 3 week 4-8 °c, 8 month at -20 °c | at 20-25 °, at 4-8 °c, at -20 °c, | --- | Avoid repeated freeze/thaw cycles Fasting is recommended |
| Immunology | Calprotectine | Imm.Chrom | Stool | 0.5 | 7day | 7day | 7 days at 2-8 °c | at 2-8 °c at -20 °c | Hemolysis, Gross: Icteric, Lipemic | --- |
| Immunology | C-ANCA | Elisa | S | 0.5 | 10day | 10day | 2 days at 2-8 °c for longer time at -20 °c | at 2-8 °c, at -20 °c | --- | --- |

آزمایشگاه پاتوبیولوژی شهریار



| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|-----------------------------|--|---------------------------|-------------|-------------|------------|-------------|---|----------------------|---|-------------------------------------|
| Therapeutic drug monitoring | Carbamazepine | Fluorescence polarization | S | 0.5 | Daily | 2day | 2 days at 2-8 °c, for longer time at -20 °c | at 2-8 °c, at -20 °c | --- | --- |
| Microbiology | Catheter Culture | --- | U | 20 | 4day | 4day | 24 hrs at 4 °c | 2 hrs at 4 °c | Hemolysis, Frozen, Clotting, Incorrect anticoagulant | --- |
| Hematology | CBC | اتوماتیک دستگاہی | WB | 3 | Daily | next day | 4 hrs at RT, 1 days at 2-8 °c | at RT, at 2-8 °c | Hemolysis, Frozen, Clotting, Incorrect anticoagulant | --- |
| Hematology | CD11abc | Flow cytometry | WB(EDTA) | 2 | 7day | 7day | 1 day at 2-8 °c | at 2-8 °c | Hemolysis, clotting, frozen, incorrect, anticoagulant | --- |
| Immunology | CD2-CD3-CD4-CD5-CD7-CD8-CD10-CD14-CD16-CD18-CD19-CD20-CD21-CD22-CD23-CD25-CD27-CD38-CD56-CD59-CD55 | Flow cytometry | WB(EDTA) | 2 | 10day | 10day | 1 day at 2-8 °c | at 2-8 °c | Hemolysis | --- |
| Hormone | Cell Free DNA(N.I.P.T) | NGS | WB | 10 | 30day | 30day | 2 days at 2-8 °c | at 2-8 °c | Hemolysis, Icteric, Lipemic | --- |
| Electrolytes | Chloride | ISE | S,U 24,U,PH | 0.5 | 5day | 5day | 7 days at 2-8 °c | at 2-8 °c | Hemolysis, Lipemic | Avoid repeated freeze / thaw cycles |

آزمایشگاه پاتوبیولوژی شهریار



| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|-------------------|-------------------------|--------------|-------------|-------------|------------|-------------|---|-----------------------|-----------------------------------|--|
| Biochemistry | Cholinesterase | Photometric | S | 0.5 | 10day | 10day | serom: 7 days at 2-8°C, 3months at -20°C | at 2-8°C, at -20°C | Gross Hemolysis | --- |
| Hormone | Choromogranin A | Elisa | S | 1 | 10day | 10day | 3 months at -20°C CRITICAL FROZEN | at -20°C | --- | --- |
| Immunology | CIC | Imm.Turb | S | 0.5 | 7day | 7day | 2 days at 2-8°C, 1months at -20°C | at 2-8°C, at -20°C | --- | --- |
| Hormone | Clonazepam | HPLC | S | 2 | odd day | 2day | 2 days at 2-8°C for longer time at -20° | at 2-8°C at-20 °C | --- | --- |
| Immunology | Clostridium Toxin A & B | Elisa | Stool | 1gr | 5day | 5day | --- | --- | Clot | --- |
| Coagulation tests | Clotting Time | Tube method | U,PE | 0.5 | Daily | next day | 7 days at 2-8°C, 3months at -20°C | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | --- |
| Immunology | CMV Ab (IgG)-avidity | Elisa | S | 0.5 | 10day | 10day | 7 days at 2-8°C, 3 months at -20°C | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | Avoid repeated freeze / thaw cycles |

آزمایشگاه پاتوبیولوژی شهریار

| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|------------|------------------------------|----------------------------|---|-------------|------------|-------------|--|----------------------|--|--|
| Hormone | CMV Ab(IgM)-capture | CLIA | S, PE, PH, PC, BF,CSF | 0.5 | 1day | 1day | 7 days at 2-8°C , 3 months at -20°C | at 2-8°C at -20°C | Hemolysis, Frozen, Clotting, Incorrect anticoagulant | Avoid repeated freeze / thaw cycles |
| Immunology | CMV antigenemia (pp-65) | IFA | WB(EDTA) | 3 | 13day | 13day | 6 hrs at RT | 4 hrs at RT | --- | --- |
| PCR | CMV PCR | Real time | CSF,Serum, Whole blood,Tissue ,Re spiratory sample,Plasma Serum, Ammnion ,Urine,Dermal & genital lesion | 2 | 8day | 8day | week at 2-8°C for longer time at -20° | --- | --- | Not recommended |
| Immunology | Cold Agglutinine | Agglutination | S | 0.5 | 10day | 10day | 1 day at 2-8°C | at 2-8°C | اتولیز بودن | --- |
| Pathology | Consult Block pathology | Sectioning and Staining | Paraffin Block | --- | Daily | 5day | Unlimited after fixation. | --- | --- | --- |

آزمایشگاه پاتوبیولوژی شهریار

| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|--------------|----------------------|---------------|-------------|-------------|--------------|---------------|---|-----------------------|-----------------------------------|---|
| Pathology | Consultation Slide | Direct smear | Stain Slide | --- | 7day | 7day | at RT | at RT | Hemolysis | --- |
| Serology | Coombs Wright | Agglutination | S,CSF,BF | 1 | 3day | 3day | 2 days at 2-8°C, 7 days at -20°C | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | --- |
| Hormone | Cortisol | ECL | S U 24 | 0.5 | Thu 10day | 1day 10day | 7 days at 4-25 °C | at 4-25 °C | Hemolysis, Icteric, Lipemic | Sampling time between 6-8 am. Avoid stress ,using medication |
| Immunology | Covid Anti RBD-Total | Elisa | S | 1 | 6day | 6day | 2 days at 2-8°C, >2Days: -20 °C Avoid Freeze thaw | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | --- |
| Immunology | Covid Anti spike-G | Elisa | S | 1 | 6day | 6day | 2 days at 2-8°C, >2Days: -20 °C Avoid Freeze-thaw | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | --- |
| Hormone | C-Peptide | ECL | S | 0.5 | 6day | 6day | Immediately at -20 °C (up to Analyse) | at -20°C | Hemolysis, Lipemic | Fasting is recommended Rapidly seperated (at 2-8 °C) |
| Biochemistry | CPK | photometric | S ,PE | 0.5 | Daily | next day | 1 day at RT 7 days at 2-8°C, 1 month at -20°C | at 2-8°C, at -20°C | Hemolysis | Avoid repeated freeze / thaw cycles |

آزمایشگاه پاتوبیولوژی شهریار

| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|---------------------------|--------------------|---------------|--------------|-------------|------------|-------------|--|-----------------------|--|--|
| Biochemistry | CPK-MB | DGKC | S,PH | 0.5 | Daily | next day | 7 days at 2-8°C, (dark place) | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | Avoid repeated freeze / thaw cycles |
| Biochemistry | Creatinine | Colorimetry | S | 0.5 | Daily | next day | 7 days at RT. 4-25°C 3months < -20°C at RT | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | --- |
| Biochemistry | CRP | Turbidimetric | S | 0.5 | Daily | next day | 3 months at -20°C 15 days at 20-25°C, 3months at 4-8°C | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | --- |
| Serology | CRP High Sensitive | Imm.Turb | S,PH,BF | 0.5 | 13day | 13day | 1 week at 2-8°C for longer time at -20° | at 2-8°C, at -20°C | Hemolyse, Ictreic, Lipemic. Whole blood drawn in a prewarmed (37 C) syringe. Frozen, Storage at 2-8 C | Avoid repeated freeze / thaw cycles |
| Immunology | Cryoglobulin | Percipitation | S | 1 | 13day | 13day | 2 days at RT | at RT | Hemolysis | Fasting is recommended ارسال در دمای محیط |
| Body Fluid Examination | CSF ADA | Enzymatic | CSF ,PE,S,BF | 0.5 | 7day | 7day | 5 days at 2-8°C, 1 month at -20°C | at 2-8°C, at -20°C | --- | --- |
| Microbiology | CSF Direct Smear | --- | CSF | --- | 2day | 2day | at RT fast sending | at RT fast sending | --- | --- |
| Body Fluid Examination | CSF Gram Stain | --- | CSF | --- | 3day | 3day | at RT fast sending | at RT fast sending | Hemolysis, Icteric, Lipemic | --- |

آزمایشگاه پاتوبیولوژی شهریار



| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|------------------------|------------------------------|----------------------|-------------|-------------|------------|-------------|--|-----------------------|-----------------------------------|--|
| Biochemistry | CSF(O.C.B) | IEF & Immunofixation | S & CSF | 1 | 10day | 10day | 7 days at 2-8°C, 3 months at -20°C | at 2-8°C, at -20°C | --- | Not recommended |
| Body Fluid Examination | CSF LDH | photometric | CSF | 0.5 | Daily | next day | 6 week at -20°C | at 2-8°C | --- | --- |
| Hormone | CYFRA 21 | ECL | S,PE,PH | 1 | 9day | 9day | 4 weeks at 2-8°C, 6months at -20°C | at 2-8°C, at -20°C | --- | --- |
| Immunology | Cystatin C | Colorimetry | S, PE | 0.5 | 13day | 13day | 2 days at 2-8°C, for longer time at -20°C | at -20°C | Hemolysis, Icteric, Lipemic | Avoid repeated freeze / thaw cycles |
| Immunology | Cytomegalovirus (CMV) IgG | Elisa | S | 0.5 | Tue | next day | 7 days at 2-8°C, 3months at -20°C | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | Avoid repeated freeze / thaw cycles |
| Immunology | Cytomegalovirus (CMV) IgM | ELFA | S | 0.5 | Tue | next day | 7 days at 2-8°C, 3months at -20°C | at 2-8°C, at -20°C | Hemolysis, Lipemic | Avoid repeated freeze / thaw cycles |
| Hormone | DihydroTestosterone (DHT) | Elisa | S | 0.5 | 10day | 10day | 3 days at 2-8°C, 3 months at -20°C | at 2-8°C, at -20°C | Hemolysis, Lipemic | --- |
| Coagulation tests | D-dimer (Quantitative) | Coagulation | PC | 3 | Daily | Same day | 8 hrs at RT 1months at -20°C | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | Avoid repeated freeze / thaw cycles |
| Hormone | DHEA-SO4 | CLIA | S, PH | 0.5 | Sat,Tue | next day | 7 days at 2-8°C, 2months at -20°C | at 2-8°C, at -20°C | --- | Avoid repeated freeze / thaw cycles |

آزمایشگاه پاتوبیولوژی شهریار



| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|-----------------------------|------------------------|---------------|-------------|-------------|------------|-------------|--|-------------------------|-----------------------------------|--|
| Immunology | Diazepam | Imm.Chrom | U | 5 | Daily | 1day | 4 days at 2-8 °c Ur.: 1month at -20 °c | at 2-8 °c, at -20 °c | Hemolysis, Icteric, Lipemic | --- |
| Therapeutic drug monitoring | Digoxin | CLIA | S | 0.5 | 10day | 10day | 2 days at 2-8 °c ,for longer time at -20 °c | at 2-8 °c, at -20 °c | --- | Avoid repeated freeze/ thaw cycles |
| Serology | Direct Coombs test | Agglutination | WB | 2 | Daily | next day | 1 week at 2-8 °c | at 2-8 °c | Clot ,Hemolys | --- |
| Hematology | E.S.R | Westergren | PC | 2 | Daily | next day | 12 hrs at 2-8 °c, 2hr at RT | at 2-8 °c,at RT | --- | --- |
| Microbiology | Ear Direct Smear | --- | Ear Swabs | --- | 2day | 2day | 24 hrs at RT | 24 hrs at RT | --- | --- |
| Microbiology | Ear Discharge (C&S) | --- | Ear Swabs | --- | 4day | 4day | 24 hrs at RT | 24 hrs at RT | Hemolysis, Icteric, Lipemic | --- |
| Immunology | EBV Ab (VCA)IgG | Elisa | S | 0.5 | 8day | 8day | 1 week at 2-8 °c, for longer time at -20 °c | at 2-8 °c, at -20 °c | Hemolysis, Icteric, Lipemic | Avoid repeated freeze / thaw cycles |
| Immunology | EBV Ab (VCA)IgM | ELFA | S | 0.5 | 8day | 8day | 1 week at 2-8 °c, for longer time at -20 °c | at 2-8 °c, at -20 °c | incorrect | Avoid repeated freeze / thaw cycles |

آزمایشگاه پاتوبیولوژی شهریار

| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|---------------------|-----------------------------------|-----------------|-------------------------------------|-------------------------|------------|-------------|---|-------------------------|-----------------------------------|--|
| Molecular diagnosis | EBV PCR(Quantitative) | Qualitative pcr | S .PE | Tissue 5mm Other 1ml | 10day | 10day | WB : 8 hrs RT, 3 days 2-8 °c Others: 24 hrs RT , 5 days 2-8 °c 1 yr -20 °c Tissue Fresh Freeze 1 yr. Paraffin block at RT (unlimited) | at 2-8 °c | --- | --- |
| Toxicology | Ecstasy (MDMA) | Imm.Chrom | WB | 10,50 | Daily | next day | 7 days at 2-8 °c, 2months at -20 °c | at 2-8 °c, at -20 °c | --- | --- |
| Microbiology | Endocervix culture | --- | Vaginal/prostatic/Urethra/discharge | --- | 8day | 8day | 24 hrs at RT | 24 hrs at RT | --- | --- |
| Microbiology | Endocervix direct smear | --- | Vaginal/prostatic/Urethra/discharge | --- | 2day | 2day | 24 hrs at RT | 24 hrs at RT | --- | --- |
| Microbiology | Endocervix direct smear For BK | --- | Vaginal/prostatic/Urethra/discharge | --- | 8day | 8day | 24 hrs at 2-8 °c | at 2-8 °c | --- | --- |
| Microbiology | Endometrial Culture for BK | --- | Endometrial | --- | 60day | 60day | 24 hrs at 2-8 °c | at 2-8 °c | --- | --- |
| Microbiology | Endometrial Smear for BK | --- | Endometrial | --- | 8day | 8day | 24 hrs at 2-8 °c | at 2-8 °c | Hemolysis, Icteric, Lipemic | --- |
| Immunology | Entamoeba Histolytica Ab (IgG) | Elisa | S | 0.5 | 7day | 7day | 7 days at 2-8 °c, 3months at -20 °c | at 2-8 °c, at -20 °c | --- | Avoid repeated freeze / thaw cycles |

آزمایشگاه پاتوبیولوژی شهریار



| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|-----------------------------|---------------------------|--------------|---|-------------|------------|-------------|--|-----------------------|-----------------------------------|--|
| Cytology | E-Prep | direct Smear | E Prep | --- | 6day | 6day | --- | --- | Hemolysis, Icteric, Lipemic | --- |
| Hormone | Erythro poetin(E.P.O) | Elisa | S(After sampling and befor separating, sample must stored at 2-8°c, then seperated at refrigeerated centrifuge | 0.5 | 10day | 10day | 4 days at 2-8°c Ur.: 1month at -20°c | at 2-8°c, at -20°c | Hemolysis, Icteric, Lipemic | void repeated freeze/thaw cycles separated at refrigerated centrifug |
| Hormone | Estradiol | CLIA | S,P | 0.5 | Sat | next day | 5 days at 2-8°c, 3months at -20°c | at 2-8°c, at -20°c | --- | Avoid repeated freeze / thaw cycles |
| Therapeutic drug monitoring | Ethosuximide | HPLC | S | 0.5 | Daily | 2day | 2 days at 2-8°c ,for longer time at -20°c | at 2-8°c, at -20°c | --- | --- |
| Microbiology | Eye Culture & Sensitivity | --- | eyes Swap | --- | 8day | 8day | 24 hrs at RT | 24 hrs at RT | --- | --- |
| Microbiology | Eye dis. Culture | --- | eyes Swap | --- | Daily | 2day | 24 hrs at RT | 24 hrs at RT | --- | --- |
| Immunofluore scent | F.A.N.A | IFA | S | 0.5 | Tue | 2next day | 2 days at 2-8°c for longer time at -20°c | --- | --- | --- |

آزمایشگاه پاتوبیولوژی شهریار

| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|-------------------|--------------------------|--------------|-------------|-------------|------------|-------------|---|---------------------|--|--|
| Cytology | FNA (Fine Needle Asp) | Direct smear | BF | --- | 7day | 7day | Unlimited time for prepared slides | --- | Not a blood sample and diarrhea | --- |
| Parasitology | F.I.O.B.T | Imm-chem | Stool | 10 | 10day | 10day | fast sending | fast sending | Hemolysis Incorrect anticoagulant | --- |
| Coagulation tests | Factor VII | Coagulation | PC | 1 | 10day | 10day | 2 hrs at RT, 14 days at -20°C, 6months at -80°C | at -20°C | Hemolysis,incorrect, anticoagulant | --- |
| Coagulation tests | Factor II | Coagulation | PC | 1 | 7day | 7day | 2 hrs at RT 14days at -20°C 6months at -80°C | at -20°C | Hemolysis, Frozen, Clotting, Incorrect anticoagulant | Avoid repeated freeze / thaw cycles Be separated quickly / Two times centrifugation is preferred. |
| Coagulation tests | Factor V | PCR | WB(EDTA) | 1 | 13day | 13day | 1 week at 2-8 °C for longer time at -20 ° | at RT, at 2-8 °C | --- | Avoid repeated freeze/thaw cycles Be separated quickly/Two times centrifugation is preferred |
| Coagulation tests | Factor VIII | Coagulation | PC | 1 | 13day | 13day | 1 week at 2-8 °C for longer time at -20 ° | at 2-8 °C | Hemolysis Incorrect anticoagulant | --- |
| Coagulation tests | Factor X | Coagulation | PC | 1 | 10day | 10day | 2 hrs at RT, 14 days at -20°C, 6months at -80°C | at -20°C | Hemolysis, Incorrect, anticoagulant | --- |
| Immunology | Factor XI | Coagulation | PC | 1 | 13day | 13day | 2 hrs at RT, 14 days at -20°C, 6months at -80°C | at -20°C | --- | --- |

آزمایشگاه پاتوبیولوژی شهریار



| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|-------------------|---------------------|----------------|-----------------------------|-------------|------------|-------------|--|---------------------------------|-----------------------------------|---|
| PCR | Factor XIII | PCR | WB(EDTA) | 1 | 17day | 17day | 1 week at 2-8 °c for longer time at -20 | at 2-8 °c | Hemolysis | --- |
| Biochemistry | Fasting Blood Sugar | Photometric | S ,PE | 0.5 | Daily | next day | 1 day at 20-25 °c 7 days at 4-8 °c | at 2-8 °c, at -20 °c | --- | --- |
| Parasitology | Fat Of Stool | sudan blachIII | Stool | 0.5 | 6day | 6day | 1 hrs at RT 4day at 2-8 °c, 14days at -20 °c | at 2-8 °c | Hemolysis | --- |
| Biochemistry | FBS | Photometric | S ,PE | 0.5 | Daily | next day | 1 day at 20-25 °c 7 days at 4-8 °c | at 2-8 °c, at -20 °c | Hemolysis, Icteric, Lipemic | --- |
| Coagulation tests | FDP | Agglutination | PC(platelet - poor plasma) | 1 | 10day | 10day | 8 hrs at 20-25 °c one month at -20 °c | 3 hrs at 20-25 °c, at -20 °c | Hemolysis, Lipemic | Serum or plasma must be separated as soon as possible |
| Hormone | Ferritin | ECL | S | 0.5 | Even days | next day | 24 hrs at RT 7day at 2-8 °c 1year at -20 °c | --- | Clot ,Hemolys | Avoid repeated freeze / thaw cycles |
| Coagulation tests | Fibrinogen | gravimetric | PC | 3 | Daily | next day | 2 week at -20 °c 24 hrs at 2-8 °c 6hrs at RT | at 2-8 °c, at -20 °c | --- | Be separated quickly |
| Cytology | Fluid cytology | Direct smear | BF,U | --- | 7day | 7day | The same time must vbe analysis | at 2-8 °c | --- | --- |
| Hormone | Folat RBC | CLIA | C.B.C | 1,2 | 7day | 7day | fast sending | at 2-8 °c, at -20 °c | Hemolysis, Icteric, Lipemic | --- |

آزمایشگاه پاتوبیولوژی شهریار



| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|-----------------------|---------------|--------------|-------------|-------------|-------------|-------------|---|-----------------------|-----------------------------------|--|
| Specific Biochemistry | Folic Acid | CLIA,ECL | S ,PH | 0.5,1 | 5day | 5day | 2 hrs at 15-25°C 2day at 2-8°C 28day at 15-25°C | at 2-8°C | Hemolysis, Icteric, Lipemic | Avoid repeated freeze / thaw cycles |
| Hormone | Free Beta | CLIA | S | 0.5 | Sun ,Wed | next day | 7 days at 2-8°C, longer time at -20°C | at 2-8°C at -20°C | Hemolysis, Icteric, Lipemic | --- |
| Immunology | Free Beta HCG | CLIA | S | 0.5 | Sun ,Wed | next day | 7 days at 2-8°C, longer time at -20°C | at 2-8°C at -20°C | --- | Cold chain compliance during transport. Avoid repeated freeze / thaw cycles |
| Hormone | Free cortisol | CLIA | U | 5 | 8day | 8day | 7 days at 4-25°C | at 20-25° | Hemolysis, Icteric, Lipemic | --- |
| Hormone | Free estriol | CLIA | S, PH | 0.5 | Mon,Sat,Thu | next day | 7 days at 2-8°C, 6months at -20°C | at 2-8°C, at -20°C | --- | --- |
| Immunology | Free Kappa | Imm.Turb | U ,S | 0.5,1 | 10day | 10day | 7 days at 2-8°C, 1months at -20°C | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | Avoid repeated freeze / thaw cycles |
| Immunology | Free Lambda | Imm.Turb | U ,S | 0.5,1 | 13day | 13day | 7 days at 2-8°C, 1months at -20°C | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | Avoid repeated freeze / thaw cycles |
| Tumor Markers | Free PSA | CLIA | S | 0.5 | Even days | next day | 1 day at 2-8°C, >1Days: -20 °C | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | Avoid repeated freeze / thaw cycles |

آزمایشگاه پاتوبیولوژی شهریار

| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|------------|-------------------|--------------|-------------|-------------|------------|-------------|---|-----------------------|-----------------------------------|---|
| Hormone | Free T3 | Elisa | S | 0.5 | Sat | next day | 2 days at 2-8°C, >2Days: -20 °c | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | Avoid repeated freeze /thaw cycles |
| Hormone | Free T4 | Elisa | S | 0.5 | Even days | next day | 2 days at 2-8°C, >2Days: -20 °c | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | Avoid repeated freeze /thaw cycles |
| Hormone | Free Testosterone | Elisa | S ,PH ,PE | 0.5 | 10day | 10day | 5 days at 2-8°C, 1 yr -20°C | at 2-8°C, at -20°C | Gross Hemolysis | --- |
| Hormone | Fructosamine | Chemical | S | 0.5 | 7day | 7day | 2 days at RT, 7 days at 2-8°C, 1 month at -20°C | at 2-8°C at -20°C | Hemolysis, Icteric, Lipemic | --- |
| Hormone | FSH | Elisa | S ,PH ,PE | 0.5 | Even days | next day | 5 days at 2-8°C, 1 yr -20°C | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | --- |
| Immunology | FTA Ab | IF | S | 0.5 | 17day | 17day | 2 weeks at -20°C , | at -20°C | Hemolysis | Avoid repeated freeze/ thaw cycles Fasting 3-6 hours |
| Serology | FTA absorption | IF | S.CSF | 0.5 | Wed | 2day | 4 hrs at 4-25°C, 2 weeks at -20°C , 3 months at -70°C | at 2-8°C, at -20°C | --- | Fasting is recommended |

آزمایشگاه پاتوبیولوژی شهریار

| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|-----------------------------|----------------------------|--------------|--------------------------------|-------------|------------------|-------------|---|-----------------------|-----------------------------------|-------------------------------------|
| Microbiology | Fungi Culture | --- | Skin, Scalp, nail, hair, BF... | --- | Daily | next day | BF: The same day must be tested Others: 5 days at RT | at RT | --- | --- |
| Microbiology | Fungi Direct Smear | Direct smear | Skin,scalp,BF | --- | Daily | 21day | The same day must be analysis | --- | --- | Avoid using antibiotic, washing |
| Biochemistry | G.C.T | Photometric | PH ,PE, S | 0.5 | Daily | next day | 5 days at 2-8°C, 6months at -20°C | at 2-8°C, at -20°C | Hemolysis | 1 fasting blood sample and 1 |
| Biochemistry | G6PD | Photometric | C.B.C | 1 | Sat,Tue | next day | 7 days at 2-8°C | at 2-8°C | --- | ingestion 50 gr.Oral glucose |
| Therapeutic drug monitoring | Gabapentin | HPLC | S | 1 | Every 4 days one | 2day | 2 days at 2-8°C for longer time at -20° | at 2-8°C, at -20°C | --- | --- |
| Hormone | MS/MS (Galactosemia) | Elisa | S | 0.5 | 17day | 17day | at 2-8°C | at 2-8°C | Hemolysis, Icteric, Lipemic | --- |
| Biochemistry | Gamma Glutamyl transferase | Photometric | PE, S | 0.5 | Daily | next day | 7 days at 20-25°C | at 2-8°C, at -20°C | --- | Avoid repeated freeze / thaw cycles |

آزمایشگاه پاتوبیولوژی شهریار



| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|--------------|------------------------|--------------|-----------------|-------------|------------|-------------|--|---------------------------------|-----------------------------|---|
| Microbiology | Gastric Lavaage For Bk | --- | Gastric Lavaage | --- | 8day | 8day | 24 hrs at 2-8°C, | 24 hrs at 2-8°C | Hemolysis, Icteric, Lipemic | --- |
| Hormone | Gastrin | CLIA | S,PE,PH | 0.5 | 13day | 13day | 5 hrs at 4°C, 30 days at -20°C, for longer time at -70°C | 0.5 hrs at 4-25°C, -20°C, -70°C | Hemolysis | Rapidly seperated (at 2-8°C). Avoid repeated freez/thaw cycles. Refrigerated Centrifuge Fasting The frozen sample |
| Hormone | GH | ECL | S | 0.5 | 10day | 10day | 1 week at 25°C, 3 weeks at 4°C | at 2-8°C, at -20°C | --- | Fasting is recommended |
| Microbiology | Giardia Antigen Stool | EliSa | S | 2 | 10day | 10day | 2 days at 2-8°C, 1 months Freeze | at 2-8°C | Hemolysis, Icteric, Lipemic | --- |
| Biochemistry | Glucose | photometric | S,PH,PE | 0.5 | Daily | next day | 5 days at 2-8°C, 6 months at -20°C | at 2-8°C, at -20°C | Hemolysis | 1 fasting blood sample and 4-5 blood sample after ingestion oral glucose (adults : 75 gr., children 1.75 gr. Per kg body weight, maximum 75 gr.) at 30, 60, 90, 120, 180 min. |

آزمایشگاه پاتوبیولوژی شهریار

| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|--------------|----------------|--------------|-------------|-------------|------------|-------------|--|-------------------------|-----------|---|
| Hormone | Growth Hormone | ECL | S | 0.5 | 7day | 7day | 1 week at 25 °c . 3weeks at 4 °c | at 2-8 °c, at -20 °c | --- | Fasting is recommended |
| Biochemistry | GTT | Photometric | PE, PH,S | 0.5 | Mon,Sat | next day | 5 days at 2-8 °c, 6months at -20 °c | at 2-8 °c, at -20 °c | Hemolysis | 1 fasting blood sample and 4-5 blood sample after ingestion oral glucose (adults : 75 gr., children 1.75 gr. Per kg body weight, maximum 75 gr.) at 30, 60, 90, 120, 180 min. |
| Biochemistry | H.D.L-c | Photometric | PE, PH,S | 0.5 | Daily | next day | 7 days at 2-8 °c, 3months at -20 °c | at 2-8 °c, at -20 °c | --- | --- |
| Hormone | Haptoglobulin | Immunoassay | S,PE,PH | 0.5 | Thu | 2day | 1 week at 2-8 °c for longer time at -20 ° | at 2-8 °c, at -20 °c | Hemolysis | --- |
| Immunology | HAV Ab (IgM) | Elisa | S | 0.5 | 7day | 7day | 1 week at 2-8 °c, for longer time at -20 °c | at 2-8 °c, at -20 °c | Hemolysis | --- |
| Immunology | HAV Ab (Total) | ELFA | S,PE | 0.5 | Sun ,Wed | 2day | 1 week at 2-8 °c for longer time at -20 °c | at 2-8 °c, at -20 °c | --- | --- |

آزمایشگاه پاتوبیولوژی شهریار

| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|-----------------------|--------------------|-----------------|-------------|-------------|------------|-------------|---|-------------------------|---|--------|
| Specific biochemistry | Hb A1C | H.P.L.C | WB | 3 | Daily | 6day | 7days at 2-8 °c | --- | Clotting | --- |
| Electrophoresis | Hb Electrophoresis | Electrophoresis | PE | 3 | 7day | 7day | 7 days at 2-8°C | at 2-8°C | Hemolysis, Icteric, Lipemic | --- |
| Immunology | HBc Ab (IgM) | Elisa | S, PE | 0.5 | 8day | 8day | 1 week at 2-8°C, for longer time at -20°C | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | --- |
| Immunology | HBc Ab (Total) | Elisa | S, PE | 0.5 | 5day | 5day | 1 week at 2-8°C, for longer time at -20°C | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | --- |
| Immunology | HBe Ag HBe Ab | ELFA | S,PE | 0.5 | 10day | 10day | 1 week at 2-8°C, for longer time at -20°C | at 2-8°C, at -20°C | Hemolysis, Lipemic | --- |
| Immunology | HBs Ab | Elisa | S,PH,PE | 0.5 | Sat,Tue | next day | 7 days at 2-8°C for longer time at -20°C | at 2-8°C, at -20°C | --- | --- |
| Immunology | HBs Ag | Elisa | S,PH,PE | 0.5 | Daily | 2day | 7 days at 2-8°C for longer time at -20°C | --- | incorrect, anticoagulant, (heparin) Hemolysis | --- |
| Molecular diagnosis | HBV viral load | Real time pcr | S ,PE | 1 | 8day | 8day | 3 days at RT 7 days at 2-8°C, 6 week at < -20°C | at 2-8°C, at or < -20°C | Hemolysis, Icteric, Lipemic | --- |

آزمایشگاه پاتوبیولوژی شهریار

| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|------------------------|----------------------------------|-----------------|---------------|-------------|------------|-------------|--|-----------------------|---|--|
| Immunology | HCV Ab | ECL | S,PH,PE | 0.5 | Even days | next day | 7 days at 2-8°C for longer time at -20°C | at 2-8°C, at -20°C | --- | --- |
| Molecular diagnosis | HCV genotyping | PCR | PE | 1 | 8day | 8day | 1 day at 2-8°C for longer time at -20 °C | --- | incorrect | --- |
| Molecular diagnosis | HCV PCR | Real time pcr | S, PE | 0.5 | 8day | 8day | at -20°C | at -20°C | incorrect | --- |
| Molecular diagnosis | HCV viral load (Quantitative) | Real time | S, PE | 0.5 | 8day | 8day | at -20°C | at -20°C | Hemolysis, Icteric, Lipemic | --- |
| Immunology | HDV Ab | Elisa | S, PE, PH, BF | 0.5 | 10day | 10day | 5 days at 2-8°C, for longer time at -20°C | at 2-8°C, at -20°C | --- | Avoid repeated freeze / thaw cycles |
| Molecular diagnosis | HDV PCR | Qualitative pcr | PE,S | 1 | 8day | 8day | at -20°C | at -20°C | --- | --- |
| Immunology | Helicobacter pylori (IgA) | Elisa | S,PH,PE | 0.5 | Sat,Tue | next day | 2 days at 2-8°C >2 days: -20 °C | --- | --- | --- |
| Immunology | Helicobacter pylori (IgG) | Elisa | S,PH,PE | 0.5 | Even days | next day | 2 days at 2-8°C >2 days: -20 °C | --- | --- | --- |
| Immunology | Helicobacter pylori (IgM) | Elisa | S,PH,PE | 0.5 | Sun ,Wed | next day | 2 days at 2-8°C >2Days: -20 °C | --- | Hemolysis,clotting, frozen,incorrect, anticoagulant | --- |

آزمایشگاه پاتوبیولوژی شهریار

| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|------------|----------------------------------|----------------------------|-------------|-------------|-------------|-------------|---|-----------------------|---|---|
| Hematology | Hemoglobin | cell counter | Wb | 0.5 | Daily | next day | 4 hrs at RT, 1 days at 2-8°C | at 2-8°C | Lipemic | --- |
| Pathology | Her2(fish) | Sectioning and Staining | Block | --- | 17day | 17day | at RT | at RT | --- | همراه داشتن تمامی فرم های مولکولی و پاتولوژی و جواب آن الزامی میباشد |
| Immunology | Heterophile Ab (Paul Bunnell) | Hemagglutination | S | 1 | 14day | 14day | 1 week at 2-8°C, | at 2-8°C | Hemolysis, Icteric | --- |
| Immunology | HEV.Ab | Elisa | S | 0.5 | 10day | 10day | 1 week at 2-8°C, longer time at -20, | at 2-8°C at -20°C | --- | --- |
| Immunology | HIV P 24 Ag | Elisa | S | 0.5 | Mon,Sat,Thu | next day | 7 days at 2-8°C for longer time at -20°C | at 2-8°C, at -20°C | Hemolysis,clotting, frozen,incorrect, anticoagulant | --- |

آزمایشگاه پاتوبیولوژی شهریار



| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|------------------------|-----------------|--------------|-------------|-------------|------------|-------------|--|-----------|--|---|
| Biochemistry | 5HIAA | Chemical | U(24h&R) | 10 | 13day | 13day | 6 months -20 °c, protect from sunlight | at -20°C | Hemolysis, Icteric, Lipemic | Avoid using coffe, tea, chocolate, Cacao, banana,... Patient Prep: 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, walnuts), chocolate, mango, date, grapefruit, melon, watermelon, kiwi, nuts, plantain and medications that may affect metabolism of serotonin. limipramine, isoniazid, methyldopa ,... must be avoided at least 72 hours befor and during collectionn of urine. |
| Molecular diagnosis | PCR for HLA ABC | PCR | WB(EDTA) | 10 | 17day | 17day | 1 week at 2-8°C for longer time at -20° | --- | Hemolysis, Frozen, Clotting, Incorrect anticoagulant (Heparine) | Not recommended |
| Molecular diagnosis | HLA ABDR | PCR/SSO | WB(ACD) | 6 | 17day | 17day | 12 hours at 2-8°C | 2-8°C | Hemolysis, Frozen, Clotting, Incorrect anticoagulant | --- |

آزمایشگاه پاتوبیولوژی شهریار



| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|---------------------|--------------------|--------------|-------------|-------------|------------|-------------|------------------|----------------|---|--------|
| Molecular diagnosis | HLA-B27 | PCR | WB | 3 | 17day | 17day | 12 hrs at 2-8°C | at 2-8°C | Hemolysis, clotting, frozen, incorrect, anticoagulant | --- |
| Immunology | HLA-B5 | PCR | WB(EDTA) | 3 | 17day | 17day | 12 hrs at 2-8°C, | at 2-8°C | Hemolysis, Clotting, Frozen, Incorrect, anticoagulant | --- |
| Immunology | HLA-B51 | PCR | WB(EDTA) | 3 | 13day | 13day | 12 hrs at 2-8°C, | at 2-8°C | Hemolysis, clotting, frozen, incorrect, anticoagulant | --- |
| Immunology | HLA-B8 | PCR | WB(EDTA) | 3 | 9day | 9day | 12 hrs at 2-8°C | at 2-8°C | Hemolysis, Lipemic | --- |
| Hormone | HLA DQ2 HLA DQ8 | PCR | WB | 10cc | 13day | 13day | 7 days at 2-8°C | at 2-8°C | Icteric | --- |
| Immunology | HLA-DR4 HLA-DR3 | PCR | WB(E or H) | 3 | 13day | 13day | 12 hrs at 2-8°C | at 2-8°C | Hemolysis, Icteric, Lipemi | --- |
| Biochemistry | Homocysteine | Colorimetry | S | 0.5 | 9day | 9day | 1 hrs at 0°C | 0.5 hrs at 0°C | --- | --- |

آزمایشگاه پاتوبیولوژی شهریار



| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|---------------------|-------------------------------|------------------------|--|-------------|------------|-------------|--------------------------------------|-----------------------|-----------------------|--------|
| Urine Hormone | Homovanillic acid (Urine.24h) | HPLC | U | 20 | 30day | 30day | 7 days at 2-8°C, 3months at -20°C | at 2-8°C, at -20°C | --- | --- |
| Molecular diagnosis | HPV Aptima | Aptima | L.B.C | 0.5 | 10day | 10day | at 2-8°C | at 2-8°C | incorrect | --- |
| Molecular diagnosis | HPV genotyping | Real time pcr-blottiry | L.B.C | 0.5 | 8day | 8day | at 2-8°C | --- | --- | --- |
| Molecular diagnosis | HSV 1 PCR | Qualitative pcr | CSF, S, WB (EDTA), Tissue, Respiratory Sample, PC (E), Dermal & Genital (vaginal & cervix) Lesion or Swab, Amniotic fluid, Thin prep, Occular diS. | --- | 8day | 8day | --- | --- | Hemolysis, Icteric | --- |

آزمایشگاه پاتوبیولوژی شهریار



| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|------------------------|--------------------------------------|-----------------|------------------|-------------|------------|-------------|--|-----------------------|---|--|
| Immunology | HSV Ab 1+2 (IgG) HSV Ab 1+2 (IgM) | Elisa CLIA | S,PH,PE | 0.5 | 10day | 10day | 1week at 2-8°C for longer time at -20°C | at 2-8°C, at -20°C | incorrect, anticoagulant, (heparin) Hemolysis, FROZEN SAMPLE CLOTTING | Avoid repeated freeze / thaw cycles |
| Molecular diagnosis | HTLV PCR | Qualitative pcr | WB (EDTA),CSF | 1 | 8day | 8day | 2 days at RT, 2week at 2-8°C | at 2-8°C | Hemolysis, Icteric, Lipemic | --- |
| Tumor Markers | Human epididymis protein 4 | ECL | S | 0.5 | Thu | 1day | 1 day at 2-8°C, for longer time at -20°C | at 2-8°C, at -20°C | --- | --- |
| Immunology | Hydatid Ab (IgG) | Elisa | S,PE | 0.5 | 6day | 6day | 1 week at 2-8°C, for longer time at -20°C | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | --- |
| Immunoglobulins | IgASerum | Imm.Turb | S,PH,PE | 0.5 | Thu,Sat | next day | 7 days at 2-8°C, 3months at -20°C | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | Avoid repeated freeze / thaw cycles |
| Immunoglobulins | IgESerum | CLIA | S,PH,PE | 0.5 | 7day | 7day | 7 days at 2-8°C, 3months at -20°C | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | Avoid repeated freeze / thaw cycles |
| Hormone | Islet cell Ab | ELISA | S | 2 cc | 10day | 10day | at -20°C | at -20°C | Hemolysis, Icteric, Lipemic | --- |

آزمایشگاه پاتوبیولوژی شهریار



| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|-----------------|------------------------------|---------------|-------------|-------------|------------|-------------|--|-----------------------|-----------------------------------|--|
| Hormone | Iso hemeagglutiniue (Anti A) | Agglutination | S | 0.5 | 10day | 10day | 7 days at 2-8°C, for longer time at -20°C | at 2-8°C, at -20°C | --- | --- |
| Hormone | Iso hemeagglutiniue (Anti B) | Agglutination | S | 0.5 | 10day | 10day | 7 days at 2-8°C, for longer time at -20°C | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | --- |
| Hormone | IGF-1 | Elisa | S | 0.5 | 10day | 10day | 6 hrs at 2-8°C for longer time at -20°C | at 2-8°C at -20°C | --- | Fasting is recommended Rapidly seperated (at 2-8°C) |
| Hormone | IGFBP-3 | CLIA | S | 0.5 | 8day | 8day | 6 hrs at 2-8°C for longer time at -20°C | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | Rapidly seperated (at 2-8°C) Fasting is recommended |
| Immunology | IgG Subclass 1 | Immunoturb | S | 1 | 13day | 13day | 2 week at 2-8°C for longer time at -20° | 2-8°C, -20°C | --- | --- |
| Immunology | IgG Subclass 2 | Immunoturb | S | 1 | 13day | 13day | 3 week at 2-8°C for longer time at -20° | 2-8°C, -20°C | --- | --- |
| Immunology | IgG Subclass 3 | Immunoturb | S | 1 | 13day | 13day | 7 days at 2-8°C, 3 months at -20°C | --- | --- | --- |
| Immunology | IgG Subclass 4 | Nephelometry | S | 1 | 14day | 14day | 1 week at 2-8°C for longer time at -20° | 2-8°C, -20°C | Hemolysis, Icteric, Lipemic | Avoid repeated freez/ thaw cycles Fasting is recommended |
| Immunoglobulins | IgG Serum | Imm.Turb | S,PH,PE | 0.5 | Thu,Sat | next day | 7 days at 2-8°C, 3months at -20°C | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | Avoid repeated freeze / thaw cycles |

آزمایشگاه پاتوبیولوژی شهریار

| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|-----------------|------------------------|-----------------|---------------|-------------|------------|-------------|--|-----------------------|-----------------------------------|--|
| Immunoglobulins | IgMSerum | Imm.Turb | S,PH,PE | 0.5 | Thu,Sat | next day | 7 days at 2-8°C, 3months at -20°C | at 2-8°C, at -20°C | Hemolysis, gross | Avoid repeated freeze / thaw cycles |
| Immunology | Igra(Quanty Fron) | Elisa | Special tube | 5 | 7day | 7day | After sample treatment 28 days at 2-8°C or 3 months at -20°C | at 2-8°C | --- | --- |
| Parasitology | IHC | --- | Biopsy, block | --- | 15day | 15day | Minimum 1 year after fixation (tissue) or block preparation. | at RT | Hemolysis, Icteric, Lipemic | --- |
| Hormone | IL-6 | ECL | S ,PE, CSF | 0.5 | 10day | 10day | 2 months at -20°C CRITICAL FROZEN | at -20°C | --- | Be separated quickly |
| Immunology | Immuno Electrophoresis | Electrophoresis | S | 0.5 | 10day | 10day | 2 days at 2-8°C ,for longer time at -20°C | at 2-8°C, at -20°C | --- | --- |
| Immunology | Immuno Electrophoresis | Electrophoresis | U | 10 | 10day | 10day | 2 days at 2-8°C, for longer time at-20°C | at 2-8°C, at -20°C | --- | --- |
| Serology | Indirect Coombs | Agglutination | S | 0.5 | Daily | next day | 7 days at 2-8°C 1months at -20°C 1days at RT | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | --- |
| Immunology | Inhibin-A | Elisa | S, PH | 0.5 | 17day | 17day | 7 days at 2-8°C, 3months at -20°C | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | --- |
| Hormone | Insulin | ECL | PH ,PE, S | 0.5 | 7day | 7day | 5 days at 2-8°C, 1months at -20°C | at 2-8°C, at -20°C | --- | Be separated quickly |

آزمایشگاه پاتوبیولوژی شهریار

| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|-----------------------------|--------------------------------------|--------------|-------------|---------------|------------|-------------|--------------------------------------|-----------------------|-----------------------------------|--|
| Hormone | intrinsic factor | Elisa | S | 0.5 | 8day | 8day | at 2-8°C, at -20°C | at 2-8°C, at -20°C | --- | --- |
| Molecular diagnosis | Jak-2(V617F) mutation | PCR | WB(EDTA) | 5 | 14day | 14day | 2 days at RT, 5 days at 2-8°C | at 2-8°C | --- | --- |
| Molecular diagnosis | JC virus PCR | PCR | WB | 6 (ویال 2) | 13day | 13day | at 2-8°C | at 2-8°C | --- | Fasting |
| Therapeutic drug monitoring | Keppra (levetiracetam) | Elisa | S,U | 1 | 5day | 5day | 1 week at 25°C, 3 weeks at 4°C | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | --- |
| Specific Biochemistry | k-stool | ISE | Stool | 0.5 | Daily | Same day | 7days at 2-8°C, 3month -20°C | at 2-8°C at -20°C | Hemolysis, Icteric, Lipemic | --- |
| Biochemistry | L.D.L-c | photometric | PH ,PE, S | 0.5 | Daily | next day | 7 days at -20°C | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | Avoid repeated freeze / thaw cycles |
| Hormone | L.H | Elisa | PH ,PE, S | 0.5 | Even days | next day | 3 days at 2-8°C, 1months at -20°C | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | Avoid repeated freeze / thaw cycles |
| Body Fluid Examination | Lactat Dehydrogenase (body fluid) | Photometric | pH, BF, CSF | 1 | Daily | next day | 1 day at 2-8°C, 1months at -20°C | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | separated with in 20 min. |
| Biochemistry | Lactat Dehydrogenase (LDH) | photometric | PH ,PE, S | 0.5 | Daily | next day | 6 week at -20°C | at -20°C | Hemolysis, Icteric, Lipemic | Avoid repeated freeze / thaw cycles |

آزمایشگاه پاتوبیولوژی شهریار



| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|--------------------------------|--------------------------------|---------------|------------------------------|-------------|------------|-------------|---|-----------------------|-----------------------------------|--|
| Biochemistry | Lactate | Chemical | PH | 1 | 4day | 4day | at -20°C | at -20°C | Hemolysis, Icteric, Lipemic | Avoid repeated freeze / thaw cycles |
| Microbiology | Lactoferrin | Elisa | Stool | 2 | 9day | 9day | 5 days at 2-8°C, 14 day sat -20°C | at 2-8°C, at -20°C | --- | Avoid repeated freeze / thaw cycles |
| Therapeutic drug monitoring | Lamotrigine | HPLC | S | 0.5 | 8day | 8day | 2 days at 2-8°C ,for longer time at -20 °C | at 2-8°C, at -20°C | Hemolysis | --- |
| Biochemistry | Latex(Quantitative)RF | Turbidimetric | S | 0.5 | Daily | next day | 7 days at 2-8°C, 3months at -20°C | --- | --- | --- |
| Hematology | LE. Cell | بررسی اسمیر | WB | 10 | 2day | 2day | The same time must be tested | --- | --- | --- |
| parasitology | Leishman Body | Slide | Skin wound dis,BMA BMA | 2slide | 2day | 2day | Unlimited after fixation at RT | at RT | --- | --- |
| Hormone | Anti Leptospira Ab(IgG,IgM) | IFA | S | 0.5 | 8day | 8day | 7 day at 2-8°C 2 month at -20°C | at 2-8°C, at -20°C | --- | Not recommended |

آزمایشگاه پاتوبیولوژی شهریار

| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|-----------------------|--|-----------------|-------------|-------------|------------------|-------------|--|----------------------|---|--|
| Hormone | Leptin | Elisa | S | 0.5 | 13day | 13day | 4 days at 4 °c for longer time at -20 °c | at 2-8 °c, at -20 °c | --- | Fasting is recommended |
| Biochemistry | Lipase | Photometric | S | 0.5 | 7day | 7day | 1 week at 25 °c, 3 weeks at 4 °c | at 2-8 °c, at -20 °c | --- | Fasting is recommended |
| Specific Biochemistry | Lipoprotein a | Imm.Turb | S,PH ,PE | 0.5 | 10day | 10day | Immediately at 2-8 °c, at -20 °c (up to Analyse) | at 2-8 °c, at -20 °c | Hemolysis, Icteric, Lipemic Frozen | Serum or plasma must be separated as soon as possible.Fasting is recommended |
| Biochemistry | Lipoprotein Electrophoresis | Electrophoresis | S | 0.5 | Every10 days one | 2day | 1 week at 4 °c for longer time at -20 °c | at 2-8 °c, at -20 °c | --- | --- |
| Immunology | Listeria Ab (IgG) Listeria Ab (IgM) | IFA | S | 0.5 | 10day | 10day | 1week at 2-8 °c, for longer time at -20 °c | at 2-8 °c, at -20 °c | Hemolysis | --- |
| Electrolytes | Lithium | ISE | S | 0.5 | Daily | next day | 1 day at 2-8 °c, 3months at -20 °c | at 2-8 °c, at -20 °c | --- | --- |
| Immunology | LKM Ab | IFA | S | 0.5 | 10day | 10day | 7 days at 2-8 °c, 3months at -20 °c | at 2-8 °c, at -20 °c | Clot, Incorrect, anticoagulant, Icteric for non-coagulation method. | --- |

آزمایشگاه پاتوبیولوژی شهریار

| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|------------------------|--|--------------------------------------|---------------------|---------------------|------------|-------------|--|---------------------------------|-----------------------------------|---|
| Immunology | Lupus Anti Coagulant | Coagulation | PC | 2 | 9day | 9day | up to 4 hrs at (20-5°C, 20+5°C) up to 1 month at -20°C , | 1 hrs at RT, -20°C | insufficient | Avoid repeated freeze / thaw cycles. Be separated quickly / Two times centrifugation is preferred. |
| Microbiology | Lymth Lode Culture for BK | --- | Lymth Lode | --- | 60day | 60day | 24 hrs at 2-8°C | 24 hrs at 2-8°C | Hemolysis, Icteric, Lipemic | --- |
| Serology | 2 Mercaptoethanol (2ME) | Agglutination | S | 0.5 | 3day | 3day | 7 days at 2-8°C, 3months at -20°C | at 2-8°C, at -20°C | --- | --- |
| Biochemistry | Magnesium (Mn) | Photometric | BF,PH,S ,U(R&24) | 0.5,1 | 10day | 10day | 7days at 2-8°C, 3months at -20°C | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | Avoid repeated freeze / thaw cycles |
| Stone Analysis | Magnesium Hydrogen Phosphate | photometric | S,U | 0.5,1 | Daily | next day | 7 days at 2-8°C, 3months at -20°C | at 2-8°C, at -20°C | --- | Avoid repeated freeze / thaw cycles |
| parasitology | Malaria | بررسی اسمیر خون محیطی و نوک انگشت | PE | 3 | 2day | 2day | Unlimited after fixation at RT | --- | --- | --- |
| Metabolic disorders | Metabolic Screening | MS/MS | DBS (see sop1) | 5 spots on paper | 10day | 10day | DBS: with cover 7 days at RT, 1 month at 2-8°C, 3 months at -20°C | at RT, at 2-8°C, at -20°C | --- | Not recommended |
| Microbiology | Mens.Blood Culture For Bk | --- | Blood | --- | 60day | 60day | 24 hrs at 2-8°C, | at 2-8°C | --- | --- |
| Microbiology | Menstruation blood Culture & Sensitivit | --- | Blood | --- | 8day | 8day | at RT fast sending | at RT fast sending | --- | --- |

آزمایشگاه پاتوبیولوژی شهریار

| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|------------------------|------------------------------------|---------------|-------------------------|-------------|------------|-------------|---|-----------------------|---|---|
| Microbiology | Menstruation blood Direct Smear | --- | Blood | --- | 2day | 2day | at RT fast sending | at RT fast sending | Clotting, Incorrect, anticoagulant | --- |
| Hormone | Mercury (HG) | Atomic abs | WB (E), U (R), (24h) | 2 | 10day | 10day | 5 days at RT, 7 days at 2-8°C, 1 month at -20°C | at RT, at 2-8°C | --- | --- |
| Biochemistry | Mg | Colorimetry | PH ,PE, S | 0.5 | Daily | next day | 7 days at 2-8°C, 1 year at -20°C | at 2-8°C, at -20°C | Clot | Avoid repeated freeze / thaw cycles |
| Genetics | MPL | PCR | WB(EDTA) | 5 | 13day | 13day | at 2-8°C | at 2-8°C | Hemolysis, Icteric, Lipemic | فرم های مولکولی و نتایج تست CBC همراه مدارک شرح حال بیمار ارسال گردد |
| Hematology | mixed PT 60 min | Coagulation | PC 3/2% | 3 | Daily | next day | 12 hrs at RT 24 hrs at 2-8°C, 2week at -20°C | at 2-8°C, at -20°C | --- | --- |
| Hematology | mixed PTT0 | Coagulation | PC 3/2% | 3 | Daily | next day | 2 hrs at RT, 24 hrs at 2-8°C 2 hrs at -20°C | --- | Hemolysis | --- |
| Metabolic disorders | MSUD test (DNPH test) | TLC | Filter Pape | 4 drop | 19day | 19day | 4 days at 2-8°C , 1month at -20°C | at 2-8°C, at -20°C | incorrect | --- |
| Molecular diagnosis | MTHFR (A1298C)Mutation(E) | Real Time PCR | WB | 5 | 11day | 11day | at 2-8°C | at 2-8°C | frozen,incorrect, anticoagulant,clotting, hemolysis | --- |

آزمایشگاه پاتوبیولوژی شهریار

| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|---------------------|-----------------------------------|---------------|--|-------------|------------|-------------|---|-----------------------------------|--|--------|
| Molecular diagnosis | MTHFR (C677T)Mutation(E) | PCR | WB | 5 | 11day | 11day | 3 days at RT 1week at 2-8°C | at 2-8°C | --- | --- |
| Metabolic disorders | Mucopolysaccharides (MPS) urine | Chemical | U | 5 | 7day | 7day | 1 month at -20°C CRITICAL FROZEN | at -20°C | Incorrect | --- |
| Molecular diagnosis | MY. tuberculosis complex (MTC)PCR | Real time pcr | Urine,Sputum | 0.5 | 8day | 8day | at 2-8°C | at 2-8°C | --- | --- |
| Immunology | Mycoplasma Ab | Elisa | Vaginal, Urethral, Urine, Semen | --- | 7day | 7day | 6 hrs. at RT, 1 day at 2-8°C in transport media | at 2-8°C in transport media | Hemolysis | --- |
| Immunology | Mycoplasma P.Ab (IgG) | Elisa | S,PH,PE | 0.5 | 9day | 9day | 7 days at 2-8°C, 3months at -20°C | at 2-8°C, at -20°C | Hemolysis | --- |
| Immunology | Mycoplasma P.Ab (IgM) | Elisa | S,PH,PE | 0.5 | 9day | 9day | 7 days at 2-8°C, 3months at -20°C | at 2-8°C, at -20°C | --- | --- |
| Microbiology | Nasal Culture & Sensitivity | --- | Wet Swap | --- | 8day | 8day | 24 hrs at RT | 24 hrs at RT | --- | --- |
| Microbiology | Nasal Direct Smear | --- | Wet Swap | --- | 2day | 2day | 24 hrs at RT | 24 hrs at RT | Hemolysis, Frozen, Clotting, Incorrect anticoagulant | --- |

آزمایشگاه پاتوبیولوژی شهریار

| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|-----------------|--|----------------------------------|-------------|-------------|------------|-------------|--------------------------------------|-----------------------|---|--------|
| Hematology | NBT | Staning.DS | WB(EDTA) | 1 | 13day | 13day | The same day at 2-8°C | at 2-8°C | --- | --- |
| Microbiology | Neck Aspiration Culture | --- | Neck | --- | 8day | 8day | at RT fast sending | at RT fast sending | --- | --- |
| Microbiology | Neck Aspiration Culture For BK | --- | Neck | --- | 60day | 60day | 24 hrs at 2-8°C | 24 hrs at 2-8°C | --- | --- |
| Microbiology | Neck Aspiration direct.S For BK | --- | Neck | --- | Daily | next day | 24 hrs at 2-8°C | 24 hrs at 2-8°C | Hemolysis, Lipemic, Icteric | --- |
| Immunology | Neuromyelitis Optica (NMO) antibody | IFA | S,PE,PC,CSF | 1 | 10day | 10day | 7 days at 2-8°C, 1 month at -20°C | at 2-8°C, at -20°C | Gross: Hemolysis, Lipemic | --- |
| Immunoglobulins | Neuronal Ab(Paraneo) | Immunoblot | S | 1 | 10day | 10day | 5 days at 2-8°C, 2months at -20°C | at 2-8°C, at -20°C | --- | --- |
| Urine Analysis | NMP22 | Imm.Chrom | U | 5 | 5day | 5day | 2 hrs at RT | at RT | --- | --- |
| Biochemistry | OsmolalitySerum/Urין | S:Calculation U:Refractometer | S,U | 1 | 5day | 5day | 7 days at 2-8°C, 2months at -20°C | at 2-8°C, at -20°C | Hemolysis, Frozen, Clotting, Incorrect anticoagulan | --- |

آزمایشگاه پاتوبیولوژی شهریار



| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|---------------------|------------------------|-----------------------|-------------|-------------|------------|-------------|---|----------------------|-----------------------------|-------------------------------|
| Hematology | Osmotic Fragility test | Hemolysis-Photometric | WB(EDTA) | 3 | 7day | 7day | The same day at 2-8 °c | at 2-8 °c | --- | Fasting is recommended |
| Hormone | Osteocalcin | ECL | S.PH | 0.5 | 24day | 24day | 2 days at 2-8 °c for longer time at -20 ° | at 2-8 °c, at -20 °c | Hemolysis, Icteric, Lipemic | Protect the light |
| Hormone | 17-OH Progesterone | Elisa | PH ,PE, S | 0.5 | 10day | 10day | 5 days at 2-8 °c, 1months at -20 °c | --- | Hemolysis | --- |
| Hormone | Prolactin(Macro) | Elisa | S | 0.5 | 7day | 7day | 1 week at 2-8 °c for longer time at -20 ° | at 2-8 °c, at -20 °c | --- | Rapidly seperated (at 2-8 °c) |
| Tumor Markers | P.S.A | CLIA | S,Ph | 0.5 | Even days | next day | 2 days at 2-8 °c, 3months at -20 °c | at 2-8 °c, at -20 °c | Hemolysis, Icteric, Lipemic | --- |
| Hormone | P.T.H | CLIA | S ,pH, PE | 0.5 | Sun | next day | 2days at 2-8 °c, 3months at -20 °c | at 2-8 °c, at -20 °c | --- | --- |
| Molecular diagnosis | PAI-1 (844 A/G)E | PCR | WB(EDTA) | --- | 7day | 7day | 1 week at 2-8 °c for longer time at -20 | --- | --- | --- |

آزمایشگاه پاتوبیولوژی شهریار

| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|-----------------------|---|--------------|-------------|-------------|------------|-------------|---|----------------------|--|--------|
| Molecular diagnosis | PAI-1(675 4G/5G)E | PCR | WB(EDTA) | --- | 11day | 11day | 1 week at 2-8 °c for longer time at -20 | --- | Hemolysis, Icteric, Lipemic | --- |
| Immunology | P-ANCA | Elisa | S | 0.5 | 10day | 10day | 2 days at 2-8 °c for longer time at -20 °c | at 2-8 °c, at -20 °c | Hemolysis | --- |
| Blood bank | Panel reactive Ab | --- | S | 1 | 8day | 8day | at 2-8 °c | at 2-8 °c | --- | --- |
| Cytology | Pap Smear(slide) | direct Smear | Smear | --- | 6day | 6day | at RT | at RT | Hemolysis, Icteric, Lipemic | --- |
| Immunology | PAPP-A | CLIA | S | 0.5 | Sun ,Wed | next day | 5 days at 2-8 °c, 3 months at -20 °c | at 2-8 °c, at -20 °c | --- | --- |
| Immunology | Parietal cell | IFA | S | 0.5 | 13day | 13day | 5 days at 2-8 °c , 3 months at -20 °c | at 2-8 °c, at -20 °c | --- | --- |
| Immunology | Parvovirus(B19) IgG Parvovirus(B19)IgM | Elisa | S,BF,CSF | 0.5 | 13day | 13day | 2 days at 2-8 °c for longer time at -20 | at 2-8 °c, at -20 °c | Incorrect, anticoagulant, Clotting | --- |
| Specific Biochemistry | Pb(Lead) | Atomic abs | C.B.C | 2 | 7day | 7day | 5 days at RT, 7Days at 2-8 °c, 1month at -20 °c | at 2-8 °c, at -20 °c | Hemolysis,clotting, frozen,incorrect, anticoagulantI | --- |

آزمایشگاه پاتوبیولوژی شهریار



| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|-----------------------------|---------------------------|---------------------------|-------------|-------------|------------|-------------|--|------------------------------|-----------|--|
| Hormone | PBN2 | ECL | PE, PH | 1 | 9day | 9day | 6 days at 2-8°C 3 months at -20°C | at 2-8°C, at -20°C | Hemolysis | --- |
| Hematology | PBS requested | wright giesma stain | WB | 1 | Daily | next day | 3 months at -20°C | at 2-8°C | --- | --- |
| Hormone | Pemphigus Ab | IFA | S | 0.5 | 10day | 10day | 5 days at 2-8°C, 3 months at -20°C | at 2-8°C, at -20°C | --- | --- |
| Microbiology | Perianal Direct Smear/CBC | --- | Perianal | --- | 2day | 2day | fast sending | in the fastest time possible | --- | --- |
| Therapeutic drug monitoring | Phenobarbital | Fluorescence polarization | S | 1 | 7day | 7day | 2 days at 2-8°C for longer time at -20°C | at 2-8°C, at -20°C | Hemolysis | --- |
| Hormone | Phenylalanine | HPLC | P | 1 | 7day | 7day | 2 weeks at -20°C | at -20°C | Hemolysis | Avoid freeze/ thaw cycles Be separated quickly Fasting 3-6 hours |
| Metabolic disorders | Phenylketonurina | --- | U | 10 | 5day | 5day | 2days at 2-8°C, at -20°C | at 2-8°C, at -20°C | --- | --- |

آزمایشگاه پاتوبیولوژی شهریار

| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|-----------------------------|---------------------------|---------------------------|-------------|-------------|------------|-------------|---|------------------------------|-----------------------------|-------------------------------------|
| Therapeutic drug monitoring | Phenytoin | Fluorescence polarization | S | 1 | Daily | 3day | 2 days at 2-8 °c for longer time at -20 °c | at 2-8 °c, at -20 °c | Hemolysis, Icteric, Lipemic | --- |
| Biochemistry | Phosphorus | photometric | S | 0.5 | Daily | next day | 4 hrs at RT 4days at 2-8 °c, 3months at -20 °c | at 2-8 °c, at -20 °c | Hemolysis, Icteric, Lipemic | Avoid repeated freeze / thaw cycles |
| Urine Analysis | Phosphorus | photometric | U | 0.5 | Daily | next day | 4 hrs at RT 4days at 2-8 °c, 3 months at -20 °c | at 2-8 °c, at -20 °c | --- | Avoid repeated freeze / thaw cycles |
| Microbiology | Pleural Culture For BK | --- | Pleural | --- | 60day | 60day | 24 hrs at 2-8 °c | 24 hrs at 2-8 °c | --- | --- |
| Microbiology | Pleural Direct smear (BK) | --- | Pleural | --- | 8day | 8day | 24 hrs at 2-8 °c | 24 hrs at 2-8 °c | --- | --- |
| Microbiology | Pleural Fluid D.Smear/CBC | --- | Pleural | --- | 2day | 2day | 24 hrs at 4 °c | in the fastest time possible | Hemolysis, Icteric, Lipemic | --- |

آزمایشگاه پاتوبیولوژی شهریار

| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|--------------------------|---------------------------------------|--------------|---------------|-------------|------------|-------------|--|---|--|--|
| Electrolytes | Potassium | ISE | S,U | 0.5 | Daily | next day | 7 days at 2-8°C, 3months at -20°C | at 2-8°C, at -20°C | --- | --- |
| Hormone | Primidone | HPLC | S | 0.5 | Daily | 2day | 2 days at 2-8°C for longer time at -20°C | at 2-8°C, at -20°C | Hemolysis | --- |
| Specific Biochemistry | Pro BNP | ECL | S | 1 | 8day | 8day | 6 days at 2-8°C, 3 months at -20°C | at 2-8°C, at -20°C | Hemolysis | --- |
| Immunology | Procalcitonin | Elisa | S, PE, PH | 1 | 13day | 13day | 5 days at 2-8°C , 1month at -20°C | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | --- |
| Hormone | Progesterone | Elisa | S ,pH, PE | 0.5 | Thu,Sat | next day | 5 days at 2-8°C, 1months at -20°C | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | Avoid repeated freeze / thaw cycles |
| Hormone | Prolactin | Elisa | S ,pH, PE | 0.5 | 1day | 1day | 4 days at 2-8°C, 3 months at -20°C | at 2-8°C, at -20°C | --- | --- |
| Microbiology | Prostate Massage Discharge/culture | Aerobic | Prostatic dis | --- | 2day | 2day | swap: 24 hrs at RT Inside the tube : fast sending | swap: 24 hrs at RT ,Inside the tube: fast sending | Clot, Icteric, Incorrect anticoagulant Icteric & Lipemic for non coagulation method | --- |

آزمایشگاه پاتوبیولوژی شهریار

| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|---------------------|--|-----------------|-------------|-------------|------------|-------------|---|-------------------------|---|--|
| Coagulation tests | Protein C | Clotting | PC | 0.5 | 7day | 7day | up to 4 hrs at 20±5 °c up to 1month at -20 °c, 6 m.at -70 ° | at -20 °c at -70 °c | Hemolysis | Serum or plasma must be seperated as soon as possible. Must be analysed until 4 hrs., 2 weeks -20 °c or 6 months -70 °c. avoid repeated freeze/thaw cycles Be separated quickly/Two times centrifugation is preferred |
| Biochemistry | Protein Electrophorsis | Electrophoresis | S | 0.5 | 8day | 8day | 4 days at 2-8 °c for longer time at -20 °c | --- | Clot, Icteric, Incorrect anticoagulant Icteric & Lipemic for non coagulation method | --- |
| Coagulation tests | Protein S | clotting | PC | 2 | 7day | 7day | up to 4 hrs at 18-25 °c up to 1month at -20 °c, 6 m.at -70 °c | at -20 °c at -70 °c | --- | Serum or plasma must be seperated as soon as possible. Must be analysed until 4 hrs., 2 weeks -20 °c or 6 months -70 °c. avoid repeated freeze/thaw cycles Be separated quickly/Two times centrifugation is preferred |
| Molecular diagnosis | Prothrombin G20210A or FII Mutation(E) | PCR | WB(EDTA) | --- | 13day | 13day | 1 week at 2-8 °c for longer time at -20 ° | --- | Clot severe ,Hemolysis | --- |
| Coagulation tests | PT mixing | Coagulation | PC 3/2% | 3 | 2day | 2day | 12 hrs at RT 24 hrs at 2-8 °c 2week at -20 °c | at 2-8 °c, at -20 °c | Clot severe ,Hemolysis | Be separated quickly |

آزمایشگاه پاتوبیولوژی شهریار



| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|-----------------------|-----------------------------------|--------------|--|-------------|------------|-------------|--|-----------------------|--|--|
| Coagulation tests | PT.Patient | Coagulation | PC | 3 | Daily | next day | 12 hrs at RT 24 hrs at 2-8°C 2week at -20°C | at 2-8°C | Clot severe ,Hemolysis | Be separated quickly |
| Coagulation tests | PTT Patient | Coagulation | PC | 3 | Daily | next day | 2 hrs at RT 24 hrs at 2-8°C 2week at -20°C | at 2-8°C | Hemolysis | --- |
| Immunology | Pyrovate | Chemical | WB on cold Perchloric acid (0.6 M) | 1 | 7day | 7day | After preparation: 7 days at 2-8°C 3 months at -20°C | at 2-8°C, at -20°C | --- | Be separated quickly. Sample collecting with cold tube & syringe |
| Genetics | QF PCR(Aminosantez) | QF PCR | PE | 20 | 5day | 5day | Fast sending at 2-8 °C | at 2-8 °C | --- | --- |
| Urine Biochemistry | Random Urine Phoshorus | photometric | U | 10 | Daily | next day | 2days at RT, PH:5 | at 2-8°C, at -20°C | --- | --- |
| Parasitology | Reducing Substance (Stool) | Chemical | Stool | 2 | 10day | 10day | 2 days at 2-8°C, 14 days at -20°C | at 2-8°C at -20°C | Hemolysis, Icteric, Lipemic Incorrect anticoagulan | --- |
| Immunology | Rast Test (Mix allergy panel) | Immunoblot | S | 1 | 10day | 10day | --- | --- | --- | --- |

آزمایشگاه پاتوبیولوژی شهریار

| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|-----------------------------|--|--------------|------------------|-------------|------------|-------------|--|--------------------|-----------------------------|--|
| Hormone | Renin | Elisa | PE | 1.5 | 10day | 10day | 4 hrs. at RT, for longer time Rapidly store at -20°c | at -20°c | --- | Avoid freeze / thaw cycles samples must be done at the usual temperature (15-25 °c) , and centrifuged at room temperature and must be frozen immediately |
| Molecular diagnosis | Rubella PCR | PCR | Sput.,tissue, BF | --- | 7day | 7day | 1 week at 2-8 °c for longer time at -20° | --- | Hemolysis, Icteric, Lipemic | --- |
| Hormone | Rubella Ab-IgM(Capture) | Elisa | S, PH | 0.5 | Daily | next day | 7 days at 2-8°c, 3 months at -20°c | at 2-8°c, at -20°c | Hemolysis, Icteric, Lipemic | --- |
| Therapeutic drug monitoring | Sandimmun (Cyclospine) | ECL | WB(EDTA) | 1 | 9day | 9day | at 2-8 °c | at 2-8 °c | FALSE | --- |
| Hormone | S.H.B.G | ECL | S | 0.5 | 10day | 10day | 2 days at 2-8°c for longer time at -20°c | at 2-8°c, at -20°c | --- | Avoid repeated freeze / thaw cycles |
| Microbiology | Saliva Secretion Culture & Sensitivity | --- | Saliva | --- | 8day | 8day | at RT fast sending | at RT fast sending | --- | --- |
| Microbiology | Saliva Secretion Direct Smear | --- | Saliva | --- | 2day | 2day | at RT fast sending | at RT fast sending | Incorrect | --- |

آزمایشگاه پاتوبیولوژی شهریار



| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|---------------------|-----------------------------|-------------------------|----------------------------|-------------|------------|-------------|--|----------------------|-----------------------------------|--------|
| Molecular diagnosis | SARS-CoV-2(COVID-19)-PCR | Real time pcr | WB Throat, Nose Swap | 0.5 | Daily | next day | at 2-8°C | at 2-8°C | --- | --- |
| parasitology | Scotch TEST | بررسی لام زیر میکروسکوپ | --- | --- | Daily | next day | --- | --- | Hemolysis, Icteric, Lipemic | --- |
| Biochemistry | Selenium | Atomic | S | 0.5 | 13day | 13day | 1 week at 2-8°C for longer time at -20° | at 2-8°C at -20°C | --- | --- |
| Microbiology | Semen Culture & Sensitivity | Aerobic | Sputum | 1 | 8day | 8day | 2 hrs at RT 1days at 2-8°C, | at 2-8°C | Mixing sample with water, urine | --- |
| Microbiology | Seminal Direct Smear (BK) | Chemical | Seminal | 0.5 | 8day | 8day | The same time must be tested. Post vasectomy 1 day at RT or 2-8°C. | --- | Hemolysis, Icteric, Lipemic | --- |
| Immunology | Serotonin | Hplc | S , U 24h (Hcl) | 1 | 35day | 35day | 2 months at -20°C | at -20°C >-20°C | --- | --- |

آزمایشگاه پاتوبیولوژی شهریار



| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|--------------|-----------------------------|--------------|-------------|-------------|------------|-------------|--|-----------------------|---|---|
| Biochemistry | Serum Iron | photometric | S,PH | 0.5 | Daily | next day | 4days at RT 7 Days at 2-8° c | at 2-8°c, at -20°c | Hemolysis | Avoid repeated freeze / thaw cycles Patient's age and sex. |
| Genetics | Sex-determination | NGS | WB | 10 | 10day | 10day | 2days at 2-8°c | at' 2-8°c | Hemolysis | --- |
| Biochemistry | SGOT(A.S.T) SGPT (A.L.T) | photometric | S | 0.5 | Daily | next day | 3 months at -20°c | at 2-8°c, at -20°c | Hemolysis, Clotting, Frozen, Incorrect, anticoagulant | Avoid repeated freeze / thaw cycles |
| Hormone | Sirolimus | CLIA | WB | 2 | 10day | 10day | 7 days at 2-8°c, 2 months at -20 °c | at 2-8°c, at -20°c | Hemolysis | --- |
| Electrolytes | Sodium | ISE | S,U | 0.5 | Daily | next day | 7 days at 2-8°c, 3 months at -20°c | at 2-8°c, at -20°c | Hemolysis, Icteric, Lipemic | --- |
| Immunology | Specific IgE(Respiratory) | Immunoblot | S | 1 | 7day | 7day | 7 days at 2-8°c, 3 months at -20°c | at 2-8°c, at -20°c | --- | Avoid repeated freeze / thaw cycles |

آزمایشگاه پاتوبیولوژی شهریار

| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|----------------|------------------------------|--------------|---------------------|-------------|------------|-------------|--|---|---------------|--------|
| Microbiology | Sputum Culture & Sensitivity | --- | Sputum | --- | 8day | 8day | 24 hrs at 4°C | 24 hrs at RT | --- | --- |
| Microbiology | Sputum Culture For BK | Aerobic | Sputum | 1 | 60day | 60day | 2hrs at RT, 1 day at 2-8 °c | at 2-8°C | --- | --- |
| Microbiology | Sputum Direct Smear (BK) | --- | Sputum | --- | 8day | 8day | 7 days at 2-8°C | 24 hrs at 2-8°C | --- | --- |
| Microbiology | Sputum Direct Smear. | --- | Sputum | --- | 3day | 3day | 24 hrs at 4°C | 24 hrs at RT | --- | --- |
| Stone Analysis | Stone Analysis | --- | Urinary tract Stone | --- | 2day | 2day | at RT | at RT | frozen sample | --- |
| Microbiology | Stool culture & Sensitivity | Aerobic | Stool | 1 | 4day | 4day | Unpreservative: 2 hrs. at RT preservative 2 days at RT or 2-8°C | With preservative (Carry blair media): 2 days at RT or at 2-8°C | --- | --- |

آزمایشگاه پاتوبیولوژی شهریار



| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|---------------------|---|--------------------------|-------------|-------------|------------|-------------|------------------------------------|--------------------|-----------------------------|--------|
| Parasitology | Stool Examination | بررسی لام به صورت مستقیم | Stool | 1 | 2day | 2day | --- | 2-8°c hrs at RT | specimen scontaining barium | --- |
| Molecular diagnosis | STD | --- | --- | --- | 17day | 17day | --- | --- | --- | --- |
| Parasitology | Stool Trypsin Activity | Chemical | Stool | 0.5 | 8day | 8day | 7 days at -20°c | at -20°c | Hemolysis | --- |
| Hormone | Strangilidous ab | Elisa | S | 0.5 | 9day | 9day | 5 days at 2-8°c, 2months at -20°c | at 2-8°c, at -20°c | Hemolysis | --- |
| Hormone | Strongyloides ster.Ab | Elisa | S | 0.5 | 8day | 8day | 5 days at 2-8°c, 2 months at -20°c | at 2-8°c at -20°c | --- | --- |
| Metabolic disorders | Succinyl Acetone Urine | LC-MS/MS | PE | 2 | 13day | 13day | 12 hours at 2-8°c 1month at -20°c | at 2-8°c, at -20°c | --- | --- |
| Microbiology | Supra Pabic Urine culture & Sensitivity | --- | U | --- | 3day | 3day | fast sending | at RT fast sending | --- | --- |
| Genetics | SMA | MLPA | C.B.C WB | 2 | 30day | 30day | 2days at 2-8°c | at 2-8°c | Hemolysis, Icteric, Lipemic | '--- |

آزمایشگاه پاتوبیولوژی شهریار



| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|-----------------------------|--------------------------------|-----------------|----------------|-------------|------------|-------------|---|------------------------------|--|----------------------------|
| Microbiology | Synovial Culture & Sensitivity | --- | Synovial | --- | 8day | 8day | 6hrs at 37°C 3days at 4°C | in the fastest time possible | --- | --- |
| Body Fluid Examination | Synovial fluid | Aerobic & Ana | Synovial Fluid | 2 | 2day | 2day | The same time must be tested | at RT | Hemolysis, Icteric, Lipemic | --- |
| Microbiology | Throat Direct Smear For BK | --- | Throat Swap | --- | 8day | 8day | 24 hrs at RT | 24 hrs at RT | --- | --- |
| Hormone | T3 Resin Uptake (T3 RU) | Elisa | PH,PE ,S | 0.5 | 2day | 2day | 1 day at RT, 7 days at 2-8°C , 1month at -20°C | at 2-8°C, at -20°C | Hemolysis, Frozen, Clotting, Incorrect anticoagulant | Avoid freeze / thaw cycles |
| Therapeutic drug monitoring | Tacrolimus(prograf) | RIA | WB€ | 2 | 10day | 10day | 2 days at 2-8°C for longer time at -20°C | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | Not recommended |
| Hormone | Testosterone | CLIA | PH,PE ,S | 0.5 | Daily | next day | 5 days at 2-8°C, 3 months at -20°C | at 2-8°C, at -20°C | --- | --- |
| Microbiology | Throat Culture & Sensitivity | Aerobic Culture | Throat Swab | 3 Swabs | 8day | 8day | Must be tested the same time | at RT | --- | --- |
| Microbiology | Throat Culture for BK | Microb Culture | S | --- | Daily | 3day | The same time must be analysis | at RT | --- | Avoid using antibioti |
| Microbiology | Throat Direct Smear | --- | Throat Swap | --- | 2day | 2day | 24 hrs at RT, | 24 hrs at RT | --- | --- |

آزمایشگاه پاتوبیولوژی شهریار

| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|--------------------------------|---------------|---|-------------|-------------|---------------------|-------------|---|---------------------------|--|--|
| Hematology | Thrombin time | clotting | PC | 2 | 5day | 5day | 6 hrs (keep at 2-8°C until test it) | at -20°C, at -70°C | Hemolysis, Icteric, Lipemic | Serum or plasma must be seperated as soon as possible. |
| Hormone | Thyroglobulin | Elisa | S | 0.5 | 8day | 8day | 1 day at 2-8°C for longer time at -20 °C | at 2-8°C, at -20°C | --- | Fasting is recommended |
| Pathology | Tissue | process, sectioning and staining,slide preparation | Tissue | --- | 7day | 7day | Unlimited after fixation,Formalin | Formalin, coatainer RT | Gross: Hemolysis , Icteric, Lipemic | --- |
| Hormone | TNF.Alpha | Elisa | S, PE, PH | 1 | 12day | 12day | 6 months at -20°C CRITICAL FROZEN | at -20°C | --- | Avoid freeze / thaw cycles |
| Therapeutic drug monitoring | Topiramate | HPLC | S | 1 | Every 4 days one | 2day | 2 days at 2-8 °C for longer time at -20 °C | at 2-8°C, at -20°C | frozen sample | --- |
| Biochemistry | Total Lipid | Colorimetry | S | 1 | Daily | 2day | 5 days at 2-8 °C for longer time at -20°C | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | Fasting |
| Biochemistry | Total Protein | photometric | PH,PE ,S | 0.5 | Daily | next day | 6 days at 15-25°C 4week at 2-8°C, 1 year at -20°C | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | Avoid repeated freeze / thaw cycles |

آزمایشگاه پاتوبیولوژی شهریار



| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|--------------|-----------------------------------|--------------|-------------|-------------|------------|-------------|---|-----------------------|-----------------------------------|---|
| Hormone | Total Thyroxine (T4) | CLIA | PC,PH,PE ,S | 0.5 | 2day | 2day | 1 day at RT, 7 days at 2-8°c , 1 month at -20°c | at 2-8°c, at -20°c | --- | Avoid freeze / thaw cycles |
| Parasitology | Tourch | ECL | S | 4 | 14day | 14day | CRITICAL FROZEN | at 2-8°c, at -20°c | Hemolysis, Icteric, Lipemic | --- |
| Immunology | Toxo(IgG)Avidity | ECL | S | 0.5 | 9day | 9day | 1 week at 2-8°c for longer time at -20° | at 2-8°c, at -20°c | Hemolysis, Icteric, Lipemic | Avoid repeated freeze/ thaw cycles Avoid using iron supplement |
| Immunology | Toxocara Ab (IgG) | Elisa | PH,PE ,S,BF | 0.5 | 10day | 10day | 1week at 2-8°c, for longer time at -20°c | at 2-8°c, at -20°c | --- | Avoid freeze/ thaw cycles |
| Microbiology | Tracheal Culture & Sensitivity | --- | Tracheal | --- | 8day | 8day | at RT fast sending | at RT fast sending | --- | --- |
| Microbiology | Tracheal Direct Smear | --- | Tracheal | --- | 2day | 2day | at RT fast sending | at RT fast sending | Hemolysis, Icteric, Lipemic | --- |
| Biochemistry | Transferrin | Imm.Turb | PH,PE ,S | 0.5 | Daily | next day | 8 days at 2-8°c, 6 months at -20°c | at 2-8°c, at -20°c | Hemolysis | Avoid repeated freeze / thaw cycles |
| Biochemistry | Triglyceride | photometric | PH,PE ,S | 0.5 | Daily | next day | 2 days at 15-25°c, 7 days at 2-8°c, 1 year at -20°c | at 2-8°c, at -20°c | Hemolysis, Icteric, Lipemic | Avoid repeated freeze / thaw cycles |

آزمایشگاه پاتوبیولوژی شهریار

| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|---------------------|------------------------|----------------|---------------------------------------|-------------|------------|-------------|--|-----------------------|-----------------------------------|--|
| Hormone | Triiodothyronine (T3) | CLIA,ECL | PH,PE ,S,Pna | 0.5 | 2day | 2day | 1 day at RT, 7 days at 2-8°c , 1 month at -20°c | at 2-8°c, at -20°c | Hemolysis, Icteric, Lipemic | Avoid freeze / thaw cycles |
| Hormone | Troponine T | ECL | S. | 0.5 | 8day | 8day | 2 days at 2-8°c for longer time at -20°c | at 2-8°c, at -20°c | Hemolysis, Icteric, Lipemic | --- |
| Hormone | TSH | CLIA | PH,PE ,S | 0.5 | 2day | 2day | 5 days at 2-8°c, 1 months at -20°c | at 2-8°c, at -20°c | Hemolysis, Icteric, Lipemic | --- |
| Immunology | TSH Receptor Ab | Elisa | S | 0.5 | 8day | 8day | 5 days at 2-8°c, 1 month at -20°c | at 2-8°c, at -20°c | --- | --- |
| Microbiology | Tuberculin Test(PPD) | Skin Test | --- | --- | 4day | 4day | --- | --- | Hemolysis | --- |
| Metabolic disorders | Tyrosine | HPLC | P | 1 | 10day | 10day | 2 weeks at -20°c | at -20°c | Hemolysis, Icteric, Lipemic | Fasting 3-6 hours Avoid freez/ thaw cycles Be separated quickl |
| Biochemistry | Urea (BUN) | photometric | PH,PE ,S | 0.5 | Daily | next day | 7 days at 2 -25°c 1year at -20°c | at 2-8°c, at -20°c | --- | Avoid repeated freeze / thaw cycles |
| Microbiology | Ureaplasma Culture | Microb Culture | BF,Urethral dis.,Vaginal dis.,U | 0.5 | Daily | 8day | The same time must be analysis | at 2-8°c | --- | Avoid using antibioti |

آزمایشگاه پاتوبیولوژی شهریار



| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|---------------------|-------------------------------|--------------|-------------|-------------|------------|-------------|---|-----------------------|-----------------------------------|--------|
| Microbiology | Urethral Discharge Direct | Aerobic | Vaginal dis | --- | 2day | 2day | in the fastest time possible | 24 hrs at RT | --- | --- |
| Microbiology | Urethral Discharge (C&S) | --- | Vaginal dis | --- | 8day | 8day | 24 hrs at RT | 24 hrs at RT | --- | --- |
| Urine Biochemistry | Urine Volume 24hrs | photometric | U | 10 | 3day | 3day | 2 days at RT, 4Days 2-8°C 3 week at -20°C | at 2-8°C | Hemolysis, Icteric, Lipemic | --- |
| Urine Biochemistry | Urine Amylase | photometric | U | 10 | 7day | 7day | 10 days at 2-8°C, 3 Weeks at -20°C , 2days at RT | at 2-8°C, at -20°C | --- | --- |
| Urine Analysis | Urine analysis | Direct smear | U | 10 | Daily | 1day | The same day must be analysis | at RT | --- | --- |
| Molecular diagnosis | Urine B2-Microglobulin Random | CLIA | U | 16cc | 5day | 5day | at 2-8°C, at -20°C | at 2-8°C, at -20°C | --- | --- |
| Urine Biochemistry | Urine Citrate | Enzymatic | U | 5 | Sat,Tue | 3day | 1 week at 2-8°C for longer time at -20 | at 2-8°C, at -20°C | --- | --- |
| Urine Biochemistry | Urine Clearance 24hr | --- | U | 10 | 2day | 2day | 2 days at RT, 7 Days at 2-8°C, 1 month -20°C | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | --- |

آزمایشگاه پاتوبیولوژی شهریار



| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|--------------------|-----------------------------|--------------|-------------|-------------|------------|-------------|---|----------------------|---|-------------------|
| Urine Biochemistry | Urine Copper 24 hr | Colorimetry | U | 1.5 | 10day | 10day | 1 week at 2-8 °c for longer time at -20 ° | at 2-8 °c, at -20 °c | --- | --- |
| Urine Biochemistry | Urine Creatinine (Random) | Photometric | U | 3 | Daily | next day | 2 days at RT, 7 Days at 2-8 °c, 1month -20 °c | at 2-8 °c | --- | --- |
| Microbiology | Urine culture & Sensitivity | --- | U | 10 | 3day | 3day | 24 hrs at 4 °c | 2 hrs at 4 °c | --- | --- |
| Urine Biochemistry | Urine Cystine | TLC | U(R & 24) | 5 | 10day | 10day | 4 days at 2-8 °c Ur.:1month at -20 °cc | at -20 °c | --- | The frozen sample |
| Urine Hormone | Urine Dopamine 24h | HPLC | U | 5 | 17day | 17day | 7 days at 2-8 °c , 1 month at -20 °c | at 2-8 °c, at -20 °c | Patient prep: Abstain from medications for 72 hours before collection. | --- |
| Microbiology | Urine Direct for BK | --- | U | 10 | 8day | 8day | 24 hrs at 4 °c | 24 hrs at 4 °c | --- | --- |

آزمایشگاه پاتوبیولوژی شهریار

| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|---------------------|----------------------|--------------|-------------|-------------|----------------|----------------|---|-------------------------|--------|---|
| Urine Biochemistry | Urine Epinephrin | HPLC | U | 5 | 17day | 17day | 7 days at 2-8 °c, 1mounth at -20 °c | at 2-8 °c, at -20 °c | --- | Abstain from emotional and mental stress, medication for 3 daya prior sampling 'Protect the light |
| Urine Biochemistry | Urine K | ISE | U | 10 | 2day | 2day | 7 days at RT, 7 Days at 2-8 °c, 1month -20 °c | at 2-8 °c | --- | --- |
| Metabolic disorders | Methotrexate(MTX) | HPLC | S | 2cc | 7day | 7day | at -20 °c | at -20 °c | --- | Protect the light |
| Biochemistry | Metanephrine | Elisa | U S | 5 | 10day 17day | 10day 17day | 2 weeks at 2-8 °c | at 2-8 °c | --- | Avoid repeated freeze / thaw cycles 'Protect the light |
| Urine Biochemistry | Urine Mg | AAS | U | 0.5 | 5day | 5day | 7 days at 2-8 °c, 2 months at -20 °c | at 2-8 °c, at -20 °c | --- | --- |
| Urine Biochemistry | Urine Micro Albumin | Imm.Turb | U | 5 | 8day | 8day | up to 4 hrs at 18- 25 °c, up to 1 week at - 2-8 °c, up to 3month at -20 °c | at 2-8 °c, at -20 °c | --- | --- |
| Urine Biochemistry | Urine Na | ISE | U | 10 | 2day | 2day | 7days at RT, 7 Days at 2-8 °c, 1 month -20 °c | at 2-8 °c | --- | Avoid repeated freeze / thaw cycles |
| Urine Hormone | Urine Norepinephrine | HPLC | PE, U | 1,10 | 17day | 17day | 7 days at 2-8 °c, 1mounth at -20 °c | at 2-8 °c, at -20 °c | --- | Abstain from emotional and mental stress, medication for 3 daya prior sampling |

آزمایشگاه پاتوبیولوژی شهریار

| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|-----------------------|--------------------------------|-----------------|------------------------------|---------------------|---------------|---------------|---|-------------------------|-----------------------------------|---|
| Hormone | Normetanephrine | Elisa | U S | 5 | 7day 17day | 7day 17day | 7 days at 2-8 °c, 1 month at -20 °c | at 2-8 °c, at -20 °c | --- | Abstain from emotional and mental stress, medication for 3 days prior sampling |
| Urine Biochemistry | Urine Uric Acid | Photometric | U,S | 10 | 2day | 2day | 2 days at RT, 7 Days at 2-8 °c, 1 month -20 °c | at 2-8 °c | Hemolysis, Icteric, Lipemic | Avoid repeated freeze / thaw cycles |
| Hormone | Urine Organic Acid | G.C- MS | U | 10 | 17day | 17day | 7 days at 2-8 °c, 3 months at -20 °c | at 2-8 °c, at -20 °c | --- | --- |
| Urine Biochemistry | Urine Oxalate | Enzymatic | U | 10 | Sat,Tue | 3day | 1 week at 2-8 °c for longer time at -20 ° | at 2-8 °c, at -20 °c | --- | --- |
| Biochemistry | Urine Protein | Photometric | U | 10 | Daily | next day | 2 days at RT, 7 Days at 2-8 °c, 1 month -20 °c | --- | --- | --- |
| Biochemistry | Urine Protein Electrophores | Electrophoresis | Urine(24h) بدون نگهدارنده | 2لوله فالکن 15cc | 13day | 13day | 7 days at 2-8 °c | at -20 °c | --- | --- |

آزمایشگاه پاتوبیولوژی شهریار



| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|---------------------|-------------------------------------|--------------|-------------|-------------|------------|-------------|--|-----------------------|-----------|--|
| Metabolic disorders | Urine Reducing Substance | Chemical | U | 10 | 15day | 15day | 1 day at 2-8°c, 1month at -20°c | --- | --- | --- |
| Microbiology | Urine Sediment | --- | U | 10 | 2day | 2day | 24 hrs at 4°c | 2 hrs at 4°c | --- | --- |
| Microbiology | Urine Sediment culture & Sensitivit | --- | U | 10 | 3day | 3day | 24 hrs at 4°c | 2 hrs at 4°c | --- | --- |
| Urine Biochemistry | Urine Urea | photometric | U | 10 | 5day | 5day | 2 days at RT, 7 Days at 2-8°c, 1 month -20°c | at 2-8°c | --- | --- |
| Urine Hormone | Urine V.M.A 24 hrs | Colorimetry | U | 10 | 6day | 6day | 2 weeks at 2-8°c with pH: 2-4 | at 2-8°c | Hemolysis | Avoid using coffe,tea,chcolate,Caca o,banana,... |
| Serology | V.D.R.L | Flocculation | S | 0.5 | 5day | 5day | 7 days at 2-8°c, 1months < -20°c | at 2-8°c, at -20°c | --- | --- |

آزمایشگاه پاتوبیولوژی شهریار



| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|-----------------------------|-------------------------------|---------------------------|-------------|-------------|------------|-------------|---|-------------------------|-----------------------|--|
| Microbiology | Vaginal Culture & Sensitivity | --- | Vaginal dis | --- | 8day | 8day | 24 hrs at RT | 24 hrs at RT | --- | --- |
| Microbiology | Vaginal Direct Smear | --- | Vaginal dis | --- | 2day | 2day | 24 hrs at RT | 24 hrs at RT | --- | --- |
| Therapeutic drug monitoring | Valporate Na (Depakin) | Fluorescence polarization | S | 2,10 | 8day | 8day | 2 days at 2-8 °c for longer time at -20 ° | at 2-8 °c at 20 °c | Hemolysis, Icteric | --- |
| Specific Biochemistry | Vitamin A | HPLC | S | 1 | 10day | 10day | 2 weeks at -20 °c | at -20 °c | Hemolysis, Icteric | void freez/ thaw cycles protect the light Be separated in refrigerated centrifuge Fasting 3-6 hours |
| Specific Biochemistry | Vitamin B12 | ECL,CLIA | pH, S | 0.5 | 7day | 7day | 2days at 2-8 °c, 1months at -20 °c | at 2-8 °c, at -20 °c | --- | Avoid repeated freeze / thaw cycles |

آزمایشگاه پاتوبیولوژی شهریار

| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|--------------------------|-------------------|--------------|----------------------------------|-------------|------------|-------------|---|-----------------------|-----------------------|--|
| Hormone | Vitamin B1 | HPLC | WB(E) | 3 | 17day | 17day | 2 weeks at 2-8°c for longer time at -20°c (dark place) | at 2-8°c, at -20°c | --- | --- |
| Hormone | Vitamin B2 | ECL | WB(E) | 0.5 | 14day | 14day | 2 weeks at 2-8°c for longer time at -20°c (dark place) | at 2-8°c, at -20°c | Hemolysis, Icteric | Avoid freez/ thaw cycles از نور محافظت شود Fasting is recommended |
| Hormone | Vitamin B6 | Elisa | PE | 3 | 10day | 10day | 3 weeks at 2-8°c for longer time at -20°c (dark place) | at 2-8°c, at -20°c | Hemolysis, Icteric | --- |
| Specific Biochemistry | Vitamin C | Chemical | S (Centrifuge immediately) | 0.5 | 8day | 8day | 1 hrs at RT, 2 weeks at -20°c (dark place) with preservative(20 mg oxalic acid in 1 ml serum) 2 months at at -20°c. | at -20°c | Hemolysis, Icteric | Avoid freez/ thaw cycles.Fasting preferred. Abstain using contraceptive drugs. Protect the light Fasting preferred |
| H.P.L.C | Vitamin D (25 OH) | H.P.L.C | S | 0.5 | Daily | next day | 1 day at RT 7 days at 2-8°c, 3 months at -20°c | at 2-8°c, at -20°c | Hemolysis, Icteric | Avoid repeated freeze / thaw cycles |

آزمایشگاه پاتوبیولوژی شهریار



| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|-----------------------|-------------------------------|--------------|-------------|-------------|------------|-------------|--|-----------------------|---|--|
| Specific Biochemistry | Vitamin E | HPLC | S | 1 | 7day | 7day | 2 weeks at -20°C | at -20°C | --- | Avoid freeze/ thaw cycles protect the light Be separated in refrigerated centrifuge Fasting 3-6 hours |
| Immunology | Von Willebrand Factor | Coagulation | PC | 3 | 14day | 14day | 6 hrs at RT 14day at -20°C | at -20°C at RT | Hemolysis, Icteric, Lipemic | --- |
| Immunology | VZV Ab (IgG) | Elisa | S | 0.5 | 10day | 10day | 2 days at 2-8°C, for longer time at -20°C | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | --- |
| Immunology | VZV Ab (IgM) | Elisa | S | 0.5 | 10day | 10day | 2 days at 2-8°C, for longer time at -20°C | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | --- |
| Molecular diagnosis | Warfarin dose VKORC/CYP2C9 | PCR | WB | 5 | 8day | 8day | 2 days at 2-8°C, 2 months at -20°C | at -20°C | Hemolysis, clotting, frozen, incorrect, anticoagulant I | --- |

آزمایشگاه پاتوبیولوژی شهریار



| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|--------------|---------------------------------|---------------|-------------|-------------|------------|-------------|---------------------------------------|-----------------------|-----------------------------------|--------|
| Molecular | Warfarin Genotyping/Sensitivity | PCR | WB | 5 | 10day | 10day | 2 days at 2-8°C, 2 months at -20°C | at 2-8°C | --- | --- |
| Immunology | WBC Panel | Cytotoxicity | WB(E or H) | 10 | Even days | 2day | 12 hrs at 2-8°C | at 2-8°C | Hemolysis, Icteric, Lipemic | --- |
| Serology | Widal Agglutination test | Agglutination | S | 1 | 3day | 3day | 7 days at 2-8°C, 3 months at -20°C | at 2-8°C, at -20°C | --- | --- |
| Microbiology | Wound Culture (Mycobacteria BK) | Aerobic & Ana | Wound dis | --- | 80day | 80day | The same time must be tested | 24 hrs at RT | --- | --- |
| Microbiology | Wound Direct Smear | --- | Wet Swap | --- | 2day | 2day | 24 hrs at RT | 24 hrs at RT | --- | --- |
| Microbiology | Wound Discharge (D.S) | --- | Wet Swap | --- | Daily | next day | 24 hrs at RT | 24 hrs at RT | --- | --- |
| Microbiology | Wound Discharge (C & S) | --- | Wet Swap | --- | 7day | 7day | 24 hrs at RT | 24 hrs at RT | --- | --- |
| Serology | Wright Agglutination Test | Agglutination | S | 0.5 | 3day | 3day | 7 days at 2-8°C, 3 months at -20°C | at 2-8°C, at -20°C | --- | --- |

آزمایشگاه پاتوبیولوژی شهریار



| Sector | Test | Assay method | Sample type | S .vol.(ml) | زمان انجام | مدت جوابدهی | Storage | Transport | Reject | Others |
|--------------|----------------------------------|----------------------------|-------------|-------------|------------|-------------|---------------------------------------|-----------------------|-----------------------------------|--------|
| Serology | Wright Agglutination Test(C.F.S) | Agglutination | S, BF, CSF | 0.5 | 3day | 3day | 7 days at 2-8°C, 3 months at -20°C | at 2-8°C, at -20°C | Hemolysis, Icteric, Lipemic | --- |
| Biochemistry | ZINC | photometric, Atomic abs | S | 0.5 | 7day | 7day | 7 days at 2-8°C, 3 months at -20°C | at 2-8°C, at -20°C | --- | --- |