

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	Daily	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,wed	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	Daily	10day	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	Mon	2day	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	wed	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	U PE	U:10 PE:1	U:Daily PE:Daily	U:17day PE:9day	U: 1 day at 2-8 °c 1 month at -20°c PE: 2 weeks at -20°c	U: at 2-8 °c, at -20 °c PE: at -20 °c	U:Hemolysis PE:Hemolysis	U:plasma sample be separated quickly fasting-Urine must be fresh PE:Avoid freez/ thaw cycles Be separated quickly plasma sample be separated quickly
Metabolic disorders	Amino Acid	TLC	U PE	U:10 PE:1	Daily Daily	10day 10day	U: 1 day at 2-8 °c, PE: 2 weeks at -20°	U: at 2-8 °c, PE: at -20 °c	Hemolysis, Icteric, Lipemic	Fasting is recommended. Urine must be fresh. Avoid freez/ thaw cycles Be separated quickl
Immunology	Anti Gliadin Ab (IgG)	Elisa	S	0.5	Daily	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	10day	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 ,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	Daily	9day	2days at 2-8°c, >2Days: -20 °c Avoid Freeze thaw	at 2-8°c, at -20°c	Hemolysis, Icteric, Lipemic	---

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Specific Biochemistry	A.C.E	Kineti	S,BF	0.5	Sat ,wed	next day	Immediately at -20 ° (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	Daily	9day	3 days at 2-8°c for longer time at -20°	at 2-8°c, at -20°c	Hemolysis, Icteric, Lipemic	Not recommended
Hormone	A.C.T.H	ECL	PE	0.5	Tue	next day	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	7day	5 days at 2-8°c 1 month at -20°c	at 2-8°c, at -20°c	---	---
Microbiology	Abscess Culture	---	Secretions	---	Daily	8day	24 hrs at RT	24 hrs at RT	---	---
Microbiology	Abscess Direct Smear	---	Secretions	---	Daily	2day	24 hrs at RT	24 hrs at RT	---	---
Hormone	Acyl Carnetine Prop hail	---	PE	1.5 CC حداقل	Daily	35day	at -20°c	at -20°c	---	---

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Hormone	Acetaminophen	HPLC	S	1	Daily	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	Daily	21day	5 days at 2-8°C, 1month at -20°C	at 2-8°C, at -20°C	Gross Hemolysis	---
Hormone	Adrenalin	Urine:HPLC S:Elisa	PH,PE,S,U	1,10	Daily	21day	pelasma: 1month at -20°C u:7day at2-8°C 1month 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 ,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 at2-8°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	Daily	9day	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	Daily	10day	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 cycles وضعیت نشسته و خوابیده بیمار گزارش شود

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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	Daily	13day	1 week at 2-8°C, for longer time at -20°C	at 2-8°C, at -20°C	Hemolysis, Icteric, Lipemic	---
Hormone	Ammonia	Enzymatic	PE	0.5	Daily	8day	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	Daily	7day	2 days at 2-8°C	at 2-8°C	Hemolysis, Icteric, Lipemic	---
Biochemistry	Amylase	Enzymatic, Colorimetry	S	0.5	Sat,Tue	next day	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	Tue	next day	Rapidly at -20°C	at -20°C	Gross Hemolysis	Fasting is recommended
Hormone	Anti ADH Ab	RIA	S	5	Daily	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	Daily	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	Daily	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

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Hormone	Anti Beta 2 Glycoprotein(IgA)	Elisa	S,PE	0.5	Daily	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	Daily	10day	1 week at 2-8 °c for longer time at -20 °	at 2-8°c, at -20°c	Hemolysis, Icteric, Lipemic	---
Immunology	Anti Borrelia Ab (IgG)	CLIA	S,PE,PC,C	0.5	Daily	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	Daily	9day	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	Daily	9day	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	Sun,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	Mon	next day	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	Daily	9day	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 (IgA)	Elisa	S	1	Daily	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	Daily	10day	5 days at 2-8°C for longer time at -20°C	at 2-8°C, at -20°C	---	---
Immunology	Anti Chlamydia Ab (IgM)	Elisa	S	0.5	Daily	10day	5 days at 2-8°C for longer time at -20°C	at 2-8°C, at -20°C	Hemolysis, Lipemic	---
Immunology	Anti Diphtheria Ab	Elisa	S	0.5	Daily	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	Daily	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	Daily	10day	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	Daily	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	Daily	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

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Immunology	Anti Fasciola Ab (IgG)	Elisa	S	0.5	Daily	10day	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	Daily	14day	at -20°C	at -20°C	Gross: Hemolysis, Lipemic	Not recommended
Hormone	Anti GAD	Elisa	S	0.5	Daily	9day	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	Daily	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	Daily	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	Daily	10day	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	Daily	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	Daily	17day	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	Daily	10day	4 hrs at RT 24hrs at 2-8°C	at -20°C	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles

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Immunology	Anti Measles Ab (IgG)	Elisa	S,CSF,BF	0.5	Daily	13day	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	Daily	13day	4 days at 4 °c for longer time at -20 °c	at 4 °c, at-20 °c	---	Avoid repeated freeze / thaw cycles
Immunology	Anti Mitochondrial Ab (AMA)	CLIA	S	0.5	Daily	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	Daily	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	Mon	next day	14 days at 2-8 °c	at 2-8°c	Hemolysis, Icteric, Lipemic	---
Immunology	Anti mumps Ab (IgG)	Elisa	S,CSF	0.5	Daily	13day	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	Daily	13day	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	Daily	13day	7 days at 2-8°c, 1 month at -20°c	at 2-8°c, at -20°c	Lipemic	---

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Immunology	Anti Nuclear Antibody	Elisa	S	0.5	Daily	next day	2days at 2-8°C, > at -20°C	at 2-8°C, at -20°C	Hemolysis, Icteric, Lipemic	---
Hormone	Anti phospholipase A2 receptor	IFA	S	0.5	Daily	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	Daily	9day	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	Daily	14day	at -20°C	at -20°C	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
Hormone	Anti Platelet Ab	IFA	S	0.5	Daily	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	Mon	next day	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	Daily	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	Daily	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	Tue	next day	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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Immunology	Anti Rubella Ab (IgM)	Elisa	S	0.5	Tue	next day	2days at 2-8°C, > at -20°C	at 2-8°C, at -20°C	---	---
Immunology	Anti SCL-70 Ab Topoisomerase	Elisa	S	0.5	Mon	next day	1week at 2-8°C, for longer time at -20°C	at 2-8°C	Gross Hemolysis	---
Hormone	Anti SLA	Elisa	S	0.5	Daily	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	Daily	9day	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	Daily	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	Daily	8day	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	Daily	2day	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	Daily	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	Daily	9day	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

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Immunology	Anti Thyroglobulin Ab	Elisa	S, PE	0.5	Tue	next day	1days at 2-8°C, for longer time at -20°C	at 2-8°C, at -20°C	---	---
Immunology	Anti Toxoplasma Ab. (IFA)	Elisa	S	0.5	Daily	7day	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	Daily	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	Wed	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
Coagulation tests	APCR (Leiden Factor)	Coagulation	PC	1	Daily	8day	at -20°C	at -20°C	Hemolysis Incorrect anticoagulant	Avoid repeated freeze / thaw cycles Be separated quickly/Two times centrifugation is preferred.

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Biochemistry	Apolipoprotein A1	Imm.Turb	S	0.5	Daily	9day	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
Biochemistry	Apolipoprotein B	Imm.Turb	S	0.5	Daily	9day	7 days at 2-8°C, 1month at -20°C	at 2-8°C, at -20°C	---	Avoid repeated freeze / thaw cycles
Microbiology	Ascite culture	Aerobic & Ana	Ascitic fluid	10	Daily	8day	in the fastest time possible	24 hrs at 4°C	Hemolysis	---
Body Fluid Examination	Ascites ADA	Enzymatic	S,PE,CSF	0.5	Daily	6day	5 days at 2-8°C 1 month at -20°	at 2-8°C, at -20°C	Gross Hemolysis	---
Immunology	Aspergillus (IgG)(IgM)	Elisa	S	0.5	Daily	15day	5 days at 2-8°C, 2 month at -20°C	at 2-8°C, at -20°C	Hemolysis, Icteric, Lipemic	---
Microbiology	Bal Culture & Sensitiv	---	Secretions	---	Daily	8day	24 hrs at 4°C	24 hrs at RT	Less than 5cc	---
Urine Analysis	Bence Jones Protein	---	U	5	Daily	2day	---	---	---	---
Hormone	Beta HCG-Serum	CLIA,ECL	S ,PE ,PC	0.5	Daily	Daily	3 days at 2-8°C, 12months at -20°C	at 2-8°C, at -20°C	---	---

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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	6 (ویال)	Daily	8day	at 2-8 °C	at 2-8 °C	---	Fasting
Coagulation tests	Bleeding Time	Duce	---	---	Daily	next day	---	---	Hemolysis, Icteric, Lipemic	---
Specific Biochemistry	Ceruloplasmin	Imm.Turb	S ,PE	0.5	Daily	9day	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	Daily	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	Daily	9day	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
Specific Biochemistry	Copper	Photometric	S ,PE ,PH ,U(R&24)	0.5,10	s: Sat,Tue u:Daily	s: next day u:10day	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	Blood Culture & sensitivity	Aerobic	WB	10% کمتر از حجم کشت نرمال	Daily	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, 1 day at RT	at 2-8°C, at RT	---	---
Genetics	Blood Karyotype	Gbanding	WB(H)	5	Daily	18day	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	---	Daily	2day	at RT	at RT	اتولیز بودن	---
Parasitology	Bone marow Aspiration	Direct smear	Smear	Several Slid	Daily	13day	at RT	at RT	اتولیز بودن	---
Parasitology	Bone marow Biopsy	Sectioning and Staining	Tissue	---	Daily	13day	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	Daily	2day	7 days at 2-8°C, 3months at -20°C	at 2-8°C, at -20°C	---	---
Microbiology	Breast Culture	Aerobic & Ana	Breast dis	5	Daily	8day	the fastest time after receiving the sample	at RT	---	---
Microbiology	Breast Direct Smear	---	Breast dis	---	Daily	2day	the fastest time after receiving the sample	at RT	Hemolysis, Icteric	---

آزمایشگاه پاتوبیولوژی شهریار

Sector	Test	Assay method	Sample type	S .vol.(ml)	زمان انجام	مدت جوابدهی	Storage	Transport	Reject	Others
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	Daily	8day	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	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	Daily	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	Sat,wed	next day	5 days at 2-8°C, 3months at -20°C	at 2-8°C, at -20°C	Hemolysis, Icteric, Lipemic	---
Microbiology	C.S.F Culture for B.K	Aerobic & Ana	CSF	1	Daily	8day	The same time must be tested	at RT	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
Immunology	C1 Inhibitor	Imm.Turb	S	0.5	Daily	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

آزمایشگاه پاتوبیولوژی شهریار

Sector	Test	Assay method	Sample type	S .vol.(ml)	زمان انجام	مدت جوابدهی	Storage	Transport	Reject	Others
Immunology	C3	Imm.Turb	S, PE ,PH	0.5	Thu	next day	7 days at 2-8°C, 1 months 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	8day	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	Sat,wed	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	Sat ,wed	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	Sun ,wed	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	Daily	10day	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
Tumor Markers	CA 72-4	ECL	S,PE	0.5	Daily	24day	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	wed	4day	Rapidly at -20°C	at -20°C	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
Genetics	CALR	PCR	WB(EDTA)	5	Daily	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

آزمایشگاه پاتوبیولوژی شهریار



Sector	Test	Assay method	Sample type	S .vol.(ml)	زمان انجام	مدت جوابدهی	Storage	Transport	Reject	Others
Hormone	Calcitonin	CLIA	S	0.5	Daily	12day	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 seperated as soon as possible. Rapidly seperated (at 2-8°) Fasting
Biochemistry	Calcium	Colorimetry	S,U 24,U	0.5	Daily	next day	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	Sat	next day	7 days at 2-8°c	at 2-8°c at -20°c	Hemolysis, Gross: Icteric, Lipemic	---
Immunology	C-ANCA	Elisa	S	0.5	Thu	2day	2 days at 2-8 °c for longer time at -20 °c	at 2-8°c, at -20°c	---	---
Therapeutic drug monitoring	Carbamazepine	Fluorescence polarization	S	0.5	Daily	9day	2 days at 2-8 °c, for longer time at -20 °c	at 2-8°c, at -20°c	---	---
Microbiology	Catheter Culture	---	U	20	Daily	4day	24 hrs at 4°c	2 hrs at 4°c	Hemolysis, Frozen, Clotting, Incorrect anticoagulant	---
Hematology	CBC	انوماتیک 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	---

آزمایشگاه پاتوبیولوژی شهریار



Sector	Test	Assay method	Sample type	S .vol.(ml)	زمان انجام	مدت جوابدهی	Storage	Transport	Reject	Others
Hematology	CD11abc	Flow cytometry	WB(EDTA)	2	Daily	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	Daily	7day	1 day at 2-8°C	at 2-8°C	Hemolysis	---
Hormone	Cell Free DNA(N.I.P.T)	NGS	WB	10	Daily	24day	2 days at 2-8°C	at 2-8°C	Hemolysis, Icteric, Lipemic	---
Electrolytes	Chloride	ISE	S,U 24,U,PH	0.5	Daily	5day	7 days at 2-8°C	at 2-8°C	Hemolysis, Lipemic	Avoid repeated freeze / thaw cycles
Biochemistry	Cholinesterase	Photometric	S	0.5	Daily	10day	serom: 7 days at 2-8°C, 3months at -20°C	at 2-8°C, at -20°C	Gross Hemolysis	---
Hormone	Choromgranin A	Elisa	S	1	Daily	10day	3 months at -20°C CRITICAL FROZEN	at -20°C	---	---
Immunology	CIC	Imm.Turb	S	0.5	Daily	10day	2 days at 2-8°C, 1months at -20°C	at 2-8°C, at -20°C	---	---
Hormone	Clonazpam	HPLC	S	2	Daily	7day	2 days at 2-8°C for longer time at -20°	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
Immunology	Clostridium Toxin A & B	Elisa	Stool	1gr	Daily	10day	---	---	Clot	---
Coagulation tests	Clotting Time	Tube method	U,PE	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	CMV Ab (IgG)-avidity	Elisa	S	0.5	Daily	9day	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
Immunology	CMV antigenemia (pp-65)	IFA	WB(EDTA)	3	Daily	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	Daily	6day	week at 2-8°C for longer time at -20°	---	---	Not recommended

آزمایشگاه پاتوبیولوژی شهریار



Sector	Test	Assay method	Sample type	S .vol.(ml)	زمان انجام	مدت جوابدهی	Storage	Transport	Reject	Others
Immunology	Cold Agglutinine	Agglutination	S	0.5	Daily	10day	1 day at 2-8°C	at 2-8°C	اتولیز بودن	---
Pathology	Consult Block pathology	Sectioning and Staining	Paraffin Block	---	Daily	4day	Unlimited after fixation.	---	---	---
Pathology	Consultation Slide	Direct smear	Stain Slide	---	Daily	8day	at RT	at RT	Hemolysis	---
Serology	Coombs Wright	Agglutination	S,CSF,BF	1	Daily	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	Tue Daily	next day 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	Daily	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	Daily	9day	2 days at 2-8°C, >2Days: -20 °C Avoid Freeze-thaw	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
Hormone	C-Peptide	ECL	S	0.5	Sun	next day	Immediately at -20 ° (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
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	Mon	next day	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	Daily	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	Daily	7day	5 days at 2-8°C, 1 month 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	CSF Direct Smear	---	CSF	---	Daily	2day	at RT fast sending	at RT fast sending	---	---
Body Fluid Examination	CSF Gram Stain	---	CSF	---	Daily	3day	at RT fast sending	at RT fast sending	Hemolysis, Icteric, Lipemic	---
Biochemistry	CSF(O.C.B)	IEF & Immunofixation	S & CSF	1	Daily	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	2day	6 week at -20°C	at 2-8°C	---	---
Hormone	CYFRA 21	ECL	S,PE,PH	1	Daily	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	Daily	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	Sat	next day	3 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Hemolysis, Lipemic	---

آزمایشگاه پاتوبیولوژی شهریار



Sector	Test	Assay method	Sample type	S .vol.(ml)	زمان انجام	مدت جوابدهی	Storage	Transport	Reject	Others
Coagulation tests	D-dimer (Quantitative)	Coagulation	PC	3	Daily	next 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	Even days	next day	7 days at 2-8°C, 2months at -20°C	at 2-8°C, at -20°C	---	Avoid repeated freeze / thaw cycles
Immunology	Diazepam	Imm.Chrom	U	5	Daily	7day	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	next day	10day	2 days at 2-8 °C ,for longer time at -20 °C	at 2-8°C, at -20°C	---	Avoid repeated freez/ 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	---	Daily	2day	24 hrs at RT	24 hrs at RT	---	---
Microbiology	Ear Discharge (C&S)	---	Ear Swabs	---	Daily	4day	24 hrs at RT	24 hrs at RT	Hemolysis, Icteric, Lipemic	---

آزمایشگاه پاتوبیولوژی شهریار



Sector	Test	Assay method	Sample type	S .vol.(ml)	زمان انجام	مدت جوابدهی	Storage	Transport	Reject	Others
Immunology	EBV Ab (VCA)IgG	Elisa	S	0.5	Daily	10day	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	Daily	10day	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
Molecular diagnosis	EBV PCR(Quantitative)	Qualitative pcr	S ,PE	Tissue 5mm Other 1ml	Daily	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/prosta tic/Urethra/dis charge	---	Daily	8day	24 hrs at RT	24 hrs at RT	---	---
Microbiology	Endocervix direct smear	---	Vaginal/prosta tic/Urethra/dis charge	---	Daily	2day	24 hrs at RT	24 hrs at RT	---	---
Microbiology	Endocervix direct smear For BK	---	Vaginal/prosta tic/Urethra/dis charge	---	Daily	8day	24 hrs at 2-8°C	at 2-8°C	---	---

آزمایشگاه پاتوبیولوژی شهریار



Sector	Test	Assay method	Sample type	S .vol.(ml)	زمان انجام	مدت جوابدهی	Storage	Transport	Reject	Others
Microbiology	Endometrial Culture for BK	---	Endometrial	---	Daily	60day	24 hrs at 2-8°C	at 2-8°C	---	---
Microbiology	Endometrial Smear for BK	---	Endometrial	---	Daily	8day	24 hrs at 2-8°C	at 2-8°C	Hemolysis, Icteric, Lipemic	---
Immunology	Entamoeba Histolytica Ab (IgG)	Elisa	S	0.5	Daily	13day	7 days at 2-8°C, 3months at -20°C	at 2-8°C, at -20°C	---	Avoid repeated freeze / thaw cycles
Cytology	E-Prep	direct Smear	E Prep	---	Daily	4day	---	---	Hemolysis, Icteric, Lipemic	---
Hormone	Erythro poeitin(E.P.O)	Elisa	S(After sampling and befor separating, sample must stored at 2-8°C, then seperated at refrigeerated centrifuge	0.5	Daily	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,Tue	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	7day	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
Microbiology	Eye Culture & Sensitivity	---	eyes Swap	---	Daily	8day	24 hrs at RT	24 hrs at RT	---	---
Immunofluorescent	F.A.N.A	IFA	S	0.5	Thu	2day	2 days at 2-8°C for longer time at -20°C	---	---	---
Cytology	FNA (Fine Needle Asp)	Direct smear	BF	---	Daily	8day	Unlimited time for prepared slides	---	Not a blood sample and diarrhea	---
Parasitology	F.I.O.B.T	Imm-chem	Stool	10	Daily	next day	fast sending	fast sending	Hemolysis Incorrect anticoagulant	---
Coagulation tests	Factor VII	Coagulation	PC	1	Daily	13day	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	Daily	10day	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	Daily	10day	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	Daily	13day	1 week at 2-8°C for longer time at -20°	at 2-8°C	Hemolysis Incorrect anticoagulant	---

آزمایشگاه پاتوبیولوژی شهریار



Sector	Test	Assay method	Sample type	S .vol.(ml)	زمان انجام	مدت جوابدهی	Storage	Transport	Reject	Others
Coagulation tests	Factor X	Coagulation	PC	1	Daily	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	Daily	13day	2 hrs at RT, 14 days at -20°C, 6months at -80°C	at -20°C	---	---
PCR	Factor XIII	PCR	WB(EDTA)	1	Daily	10day	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	Hemolysis, Icteric, Lipemic	---
Parasitology	Fat Of Stool	sudan blachIII	Stool	0.5	Daily	10day	1 hrs at RT 4day at 2-8°C, 14days at -20°C	at 2-8°C	Hemolysis	---
Coagulation tests	FDP	Agglutination	PC(platelet - poor plasma)	1	Daily	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 seperated as soon as possible
Hormone	Ferritin	ECL	S	0.5	Daily	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	---	Daily	8day	The same time must vbe analysis	at 2-8°C	---	---

آزمایشگاه پاتوبیولوژی شهریار



Sector	Test	Assay method	Sample type	S .vol.(ml)	زمان انجام	مدت جوابدهی	Storage	Transport	Reject	Others
Hormone	Folat RBC	CLIA	C.B.C	1,2	Daily	10day	fast sending	at 2-8°C, at -20°C	Hemolysis, Icteric, Lipemic	---
Specific Biochemistry	Folic Acid	CLIA,ECL	S ,PH	0.5,1	Even days	3day	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	Daily	8day	7 days at 4-25°C	at 20-25°	Hemolysis, Icteric, Lipemic	---
Hormone	Free estriol	CLIA	S, PH	0.5	Mon,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	Daily	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	Daily	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

آزمایشگاه پاتوبیولوژی شهریار



Sector	Test	Assay method	Sample type	S .vol.(ml)	زمان انجام	مدت جوابدهی	Storage	Transport	Reject	Others
Tumor Markers	Free PSA	CLIA	S	0.5	odd day	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
Hormone	Free T3	Elisa	S	0.5	Daily	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	Daily	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	Sat,Tue	next day	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	Daily	10day	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	Daily	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	Daily	13day	2 weeks at -20°C ,	at -20°C	Hemolysis	Avoid repeated freeze/ thaw cycles Fasting 3-6 hours

آزمایشگاه پاتوبیولوژی شهریار



Sector	Test	Assay method	Sample type	S .vol.(ml)	زمان انجام	مدت جوابدهی	Storage	Transport	Reject	Others
Serology	FTA absorption	IF	S.CSF	0.5	Daily	14day	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
Microbiology	Fungi Direct Smear	Direct smear	Skin,scalp,BF	---	Daily	2day	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	Daily	7day	2 days at 2-8°C for longer time at -20°	at 2-8°C, at -20°C	---	---
Hormone	Galactose	Chemical	DBS (see sop1)	2 spots on Paper	Daily	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	---	---
Biochemistry	Gamma Glutamyl transferase	Photometric	PE, S	0.5	Sat,Tue	next day	7 days at 20-25°C	at 2-8°C, at -20°C	---	Avoid repeated freeze / thaw cycles
Microbiology	Gastric Lavaage For Bk	---	Gastric Lavaage	---	Daily	8day	24 hrs at 2-8°C,	24 hrs 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
Hormone	Gastrin	CLIA	S,PE,PH	0.5	Daily	13day	5 hrs at 4 °c ,30 days at -20 °c ,for longer tme at -70 °	0.5 hrs at 4-25c °, -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	Tue	next day	1 week at 25 °c , 3weeks at 4 °c	at 2-8°c, at -20°c	---	Fasting is recommended
Microbiology	Giardia Antigen Stool	EliSa	S	2	Daily	10day	2 days at 2-8°c, 1months 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, 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.
Hormone	Growth Hormone	ECL	S	0.5	Tue	next day	1 week at 25 °c , 3weeks at 4 °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
Biochemistry	GTT	Photometric	PE, PH,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 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	Daily	13day	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	Daily	10day	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	Daily	10day	1 week at 2-8°C for longer time at -20°C	at 2-8°C, at -20°C	---	---
Specific biochemistry	Hb A1C	H.P.L.C	WB	3	Daily	2day	7days at 2-8 °c	---	Clotting	---
Electrophoresis	Hb Electrophoresis	Electrophoresis	PE	3	Daily	7day	7 days 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
Immunology	HBc Ab (IgM)	Elisa	S, PE	0.5	Mon	next day	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	Mon	next day	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	Daily	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	Even days	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	next day	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	Daily	7day	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	---
Immunology	HCV Ab	ECL	S,PH,PE	0.5	odd day	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	Daily	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	Mon	2day	at -20°C	at -20°C	incorrect	---

آزمایشگاه پاتوبیولوژی شهریار



Sector	Test	Assay method	Sample type	S .vol.(ml)	زمان انجام	مدت جوابدهی	Storage	Transport	Reject	Others
Molecular diagnosis	HCV viral load (Quantitative)	Real time	S, PE	0.5	Daily	7day	at -20°C	at -20°C	Hemolysis, Icteric, Lipemic	---
Immunology	HDV Ab	Elisa	S, PE, PH, BF	0.5	Daily	20day	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	Daily	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	---
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	---	Daily	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	Daily	14day	1 week at 2-8°C,	at 2-8°C	Hemolysis, Icteric	---

آزمایشگاه پاتوبیولوژی شهریار



Sector	Test	Assay method	Sample type	S .vol.(ml)	زمان انجام	مدت جوابدهی	Storage	Transport	Reject	Others
Immunology	HEV.Ab	Elisa	S	0.5	Daily	8day	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,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	---
Biochemistry	5HIAA	Chemical	U(24h&R)	10	Daily	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, grapfruit, melon, watwrmelon, 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.

آزمایشگاه پاتوبیولوژی شهریار



Sector	Test	Assay method	Sample type	S .vol.(ml)	زمان انجام	مدت جوابدهی	Storage	Transport	Reject	Others
Molecular diagnosis	HLA ABDR	PCR/SSO	WB(ACD)	6	Daily	17day	12 hours at 2-8°C	2-8°C	Hemolysis, Frozen, Clotting, Incorrect anticoagulant	---
Molecular diagnosis	HLA-B27	PCR	WB	3	Daily	6day	12 hrs at 2-8°C	at 2-8°C	Hemolysis, clotting, frozen, incorrect, anticoagulant	---
Immunology	HLA-B5	PCR	WB(EDTA)	3	Daily	8day	12 hrs at 2-8°C,	at 2-8°C	Hemolysis, Clotting, Frozen, Incorrect, anticoagulant	---
Immunology	HLA-B51	PCR	WB(EDTA)	3	Daily	6day	12 hrs at 2-8°C,	at 2-8°C	Hemolysis, clotting, frozen, incorrect, anticoagulant	---
Hormone	HLA DQ2 HLA DQ8	PCR	WB	10cc	Daily	13day	7 days at 2-8°C	at 2-8°C	Icteric	---
Immunology	HLA-DR4 HLA-DR3	PCR	WB(E or H)	3	Daily	15day 13day	12 hrs at 2-8°C	at 2-8°C	Hemolysis, Icteric, Lipemi	---
Biochemistry	Homocysteine	Colorimetry	S	0.5	Daily	10day	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	Daily	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	Daily	10day	at 2-8°C	at 2-8°C	incorrect	---
Molecular diagnosis	HPV genotyping	Real time per- blottiry	L.B.C	0.5	Daily	5day	at 2-8°C	---	---	---
Molecular diagnosis	HSV 1 PCR	Qualitave pcr	CSF, S, WB (EDTA), Tissue, Respiratory Sample, PC (E), Dermal & Genital (vaginal & cervix) Lesion or Swab, Amniotic fluid, Thin prep, Ocular diS.	---	Daily	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	Mon	next day	1 week 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	Daily	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	Tue	next day	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	Daily	9day	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	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	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
Hormone	Islet cell Ab	ELISA	S	2 cc	Daily	20day	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	Daily	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	Daily	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	Mon	next day	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	Daily	18day	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	Daily	13day	2 week at 2-8°C for longer time at -20°	2-8°C, -20°C	---	---
Immunology	IgG Subclass 2	Immunoturb	S	1	Daily	13day	3 week at 2-8°C for longer time at -20°	2-8°C, -20°C	---	---
Immunology	IgG Subclass 3	Immunoturb	S	1	Daily	13day	7 days at 2-8°C, 3 months at -20°C	---	---	---
Immunology	IgG Subclass 4	Nephelometry	S	1	Daily	13day	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	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	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	Daily	7day	After sample treatment 28 days at 2-8°C or 3 months at -20°C	at 2-8°C	---	---
Parasitology	IHC	---	Biopsy, block	---	Daily	15day	Minimum 1 year after fixation (tissue) or block preparation.	at RT	Hemolysis, Icteric, Lipemic	---
Hormone	IL-6	ECL	S ,PE, CSF	0.5	Daily	8day	2 months at -20°C CRITICAL FROZEN	at -20°C	---	Be separated quickly
Immunology	Immuno Electrophoresis	Electrophoresis	S	0.5	Daily	9day	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	Daily	12day	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	Mon,Thu	next day	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	Sun,Wed	next day	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	Daily	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	Daily	6ay	2 days at RT, 5 days at 2-8°C	at 2-8°C	---	---
Molecular diagnosis	JC virus PCR	PCR	WB	6 (ویبل 2)	Daily	13day	at 2-8°C	at 2-8°C	---	Fasting
Therapeutic drug monitoring	Keppra (levetiracetam)	Elisa	S,U	1	Daily	8day	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	7 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	Daily	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
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
Biochemistry	Lactate	Chemical	PH	1	Daily	4day	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
Microbiology	Lactoferrin	Elisa	Stool	2	Daily	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	Daily	8day	2 days at 2-8°C ,for longer time at -20°C	at 2-8°C, at -20°C	Hemolysis	---
Hematology	LE. Cell	بررسی اسمیر	WB	10	Daily	2day	The same time must be tested	---	---	---
parasitology	Leishman Body	Slide	Skin wound dis,BMA BMA	2slide	Daily	2day	Unlimited after fixation at RT	at RT	---	---
Hormone	Anti Leptospira Ab IgG IgM	IFA	S	0.5	Daily	8day 25day	7 day at 2-8°C 2 month at -20°C	at 2-8°C, at -20°C	---	Not recommended
Hormone	Leptin	Elisa	S	0.5	Daily	15day	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	Sat,Tue	next day	1 week at 25°C, 3 weeks at 4°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
Specific Biochemistry	Lipoprotein a	Imm.Turb	S,PH ,PE	0.5	Daily	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	Daily	25day	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	Daily	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	2day	1 day at 2-8°c, 3months at -20°c	at 2-8°c, at -20°c	---	---
Immunology	LKM Ab	IFA	S	0.5	Mon	next day	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.	---
Immunology	Lupus Anti Coagulant	Coagulation	PC	2	Daily	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	---	Daily	60day	24 hrs at 2-8°c	24 hrs 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
Serology	2 Mercoptoethanol (2ME)	Agglutination	S	0.5	Daily	3day	7 days at 2-8°C, 3months at -20°C	at 2-8°C, at -20°C	---	---
Biochemistry	Mn	Photometric	BF,PH,S ,U(R&24)	0.5,1	Daily	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
parasitology	Malaria	بررسی اسمیر خون محیطی و نوک انگشت	PE	3	Daily	2day	Unlimited after fixation at RT	---	---	---
Metabolic disorders	Metabolic Screening	MS/MS	DBS (see sop1)	5 spots on paper	Daily	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	---	Daily	60day	24 hrs at 2-8°C,	at 2-8°C	---	---
Microbiology	Menstruation blood Culture & Sensitivit	---	Blood	---	Daily	8day	at RT fast sending	at RT fast sending	---	---
Microbiology	Menstruation blood Direct Smear	---	Blood	---	Daily	2day	at RT fast sending	at RT fast sending	Clotting, Incorrect, anticoagulant	---
Hormone	Mercury (HG)	Atomic abs	WB (E), U (R), (24h)	2	Daily	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, 1year at -20°C	at 2-8°C, at -20°C	Clot	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
Genetics	MPL	PCR	WB(EDTA)	5	Daily	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
Metabolic disorders	MSUD test (DNPH test)	TLC	Filter Pape	4 drop	Daily	9day	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	Daily	7day	at 2-8°C	at 2-8°C	frozen,incorrect, anticoagulant,clotting, hemolysis	---
Molecular diagnosis	MTHFR (C677T)Mutation(E)	PCR	WB	5	Daily	7day	3 days at RT 1week at 2-8°C	at 2-8°C	---	---
Metabolic disorders	Mucopolysaccharides (MPS) urine	Chemical	U	5	Daily	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	Daily	5day	at 2-8°C	at 2-8°C	---	---
Immunology	Mycoplasma Ab	Elisa	Vaginal, Urethral, Urine, Semen	---	Daily	5day	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	Daily	9day	7 days at 2-8°C, 3months 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
Immunology	Mycoplasma P.Ab (IgM)	Elisa	S,PH,PE	0.5	Daily	9day	7 days at 2-8°C, 3months at -20°C	at 2-8°C, at -20°C	---	---
Microbiology	Nasal Culture & Sensitivity	---	Wet Swap	---	Daily	8day	24 hrs at RT	24 hrs at RT	---	---
Microbiology	Nasal Direct Smear	---	Wet Swap	---	Daily	2day	24 hrs at RT	24 hrs at RT	Hemolysis, Frozen, Clotting, Incorrect anticoagulant	---
Hematology	NBT	Staning.DS	WB(EDTA)	1	Daily	13day	The same day at 2-8°C	at 2-8°C	---	---
Microbiology	Neck Aspiration Culture	---	Neck	---	Daily	8day	at RT fast sending	at RT fast sending	---	---
Microbiology	Neck Aspiration Culture For BK	---	Neck	---	Daily	60day	24 hrs at 2-8°C	24 hrs at 2-8°C	---	---
Immunology	Neuromyelitis Optica (NMO) antibody	IFA	S,PE,PC,CSF	1	Daily	14day	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	Daily	10day	5 days at 2-8°C, 2months 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
Urine Analysis	NMP22	Imm.Chrom	U	5	Daily	5day	2 hrs at RT	at RT	---	---
Biochemistry	Osmolality Serum Urin	S:Calculation U:Refractometer	S U	1	Daily	5day 10day	7 days at 2-8°C, 2months at -20°C	at 2-8°C, at -20°C	Hemolysis, Frozen, Clotting, Incorrect anticoagulan	---
Hematology	Osmotic Fragility test	Hemolysis- Photometric	WB(EDTA)	3	Daily	7day	The same day at 2-8°C	at 2-8°C	---	Fasting is recommended
Hormone	Osteocalcin	ECL	S,PH	0.5	Daily	13day	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 Progestrone	Elisa	PH ,PE, S	0.5	Sat,Tue	next day	5 days at 2-8°C, 1months at -20°C	---	Hemolysis	---
Hormone	Prolactin(Macro)	Elisa	S	0.5	Daily	next day	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	Daily	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,Wed	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)	---	Daily	13day	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-I(675 4G/5G)E	PCR	WB(EDTA)	---	Daily	7day	1 week at 2-8 °c for longer time at -20	---	Hemolysis, Icteric, Lipemic	---
Immunology	P-ANCA	Elisa	S	0.5	Thu	2day	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	Daily	8day	at 2-8 °c	at 2-8 °c	---	---
Cytology	Pap Smear(slide)	direct Smear	Smear	---	Daily	4day	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	Daily	10day	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	Daily	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	Daily	9day	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	---
Hormone	Pemphigus Ab	IFA	S	0.5	Daily	10day	5 days at 2-8 °c, 3 months at -20 °	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	Perianal Direct Smear/CBC	---	Perianal	---	Daily	2day	fast sending	in the fastest time possible	---	---
Therapeutic drug monitoring	Phenobarbital	Fluorescence polarization	S	1	Daily	9day	2 days at 2-8 °c for longer time at -20 °	at 2-8 °c, at -20 °c	Hemolysis	---
Hormone	Phenylalanine	HPLC	P	1	Daily	9day	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	Daily	5day	2days at 2-8 °c, at -20 °c	at 2-8 °c, at -20 °c	---	---
Therapeutic drug monitoring	Phenytoin	Fluorescence polarization	S	1	Daily	9day	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

آزمایشگاه پاتوبیولوژی شهریار

Sector	Test	Assay method	Sample type	S .vol.(ml)	زمان انجام	مدت جوابدهی	Storage	Transport	Reject	Others
Microbiology	Pleural Culture For BK	---	Pleural	---	Daily	60day	24 hrs at 2-8°C	24 hrs at 2-8°C	---	---
Microbiology	Pleural Direct smear (BK)	---	Pleural	---	Daily	8day	24 hrs at 2-8°C	24 hrs at 2-8°C	---	---
Body Fluid Examination	Pleural ADA	Photometric	---	---	---	---	---	---	---	قبل از ارسال به آزمایشگاه نیلو هماهنگی های لازم انجام گردد.
Microbiology	Pleural Fluid D.Smear/CBC	---	Pleural	---	Daily	2day	24 hrs at 4°C	in the fastest time possible	Hemolysis, Icteric, Lipemic	---
Electrolytes	Potassium	ISE	S,U	0.5	Daily	2day	7 days at 2-8°C, 3months at -20°C	at 2-8°C, at -20°C	---	---
Hormone	Primidone	HPLC	S	0.5	Daily	10day	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	Daily	3day	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	Daily	9day	5 days at 2-8°C , 1month 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
Hormone	Progesterone	Elisa	S ,pH, PE	0.5	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	Daily	next day	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	---	Daily	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	---
Coagulation tests	Protein C	Clotting	PC	0.5	Daily	8day	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	روزهای انجام متغیر می باشد	next day	4 days at 2-8 °C for longer time at -20 °C	---	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 S	clotting	PC	2	Daily	8day	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 separated 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)	---	Daily	7day	1 week at 2-8 °c for longer time at -20 °	---	Clot severe ,Hemolysis	---
Coagulation tests	PT mixing	Coagulation	PC 3/2%	3	Daily	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
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	Pyovate	Chemical	WB on cold Perchloric acid (0.6 M)	1	Daily	8day	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	Daily	8day	Fast sending at 2-8 °c	at 2-8 °c	---	---

آزمایشگاه پاتوبیولوژی شهریار



Sector	Test	Assay method	Sample type	S .vol.(ml)	زمان انجام	مدت جوابدهی	Storage	Transport	Reject	Others
Urine Biochemistry	Random Urine Phosphorus	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	Daily	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	Daily	14day	---	---	---	---
Hormone	Renin	Elisa	PE	1.5	Daily	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 immediatell
Molecular diagnosis	Rubella PCR	PCR	Sput.,tissue, BF	---	Daily	7day	1 week at 2-8 °C for longer time at -20 °	---	Hemolysis, Icteric, Lipemic	---
Therapeutic drug monitoring	Sandimmun (Cyclospine)	ECL	WB(EDTA)	1	Daily	8day	at 2-8 °C	at 2-8 °C	FALSE	---

آزمایشگاه پاتوبیولوژی شهریار

Sector	Test	Assay method	Sample type	S .vol.(ml)	زمان انجام	مدت جوابدهی	Storage	Transport	Reject	Others
Hormone	S.H.B.G	ECL	S	0.5	Daily	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	---	Daily	8day	at RT fast sending	at RT fast sending	---	---
Microbiology	Saliva Secretion Direct Smear	---	Saliva	---	Daily	2day	at RT fast sending	at RT fast sending	Incorrect	---
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	Daily	9day	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	Daily	8day	2 hrs at RT 1days at 2-8°c,	at 2-8°c	Mixing sample with water, urine	---

آزمایشگاه پاتوبیولوژی شهریار



Sector	Test	Assay method	Sample type	S .vol.(ml)	زمان انجام	مدت جوابدهی	Storage	Transport	Reject	Others
Microbiology	Seminal Direct Smear (BK)	Chemical	Seminal	0.5	Daily	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	Daily	30day	2 months at -20°C	at -20°C >-20°C	---	---
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	Daily	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	Daily	10day	7 days at 2-8°C, 2 months 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
Electrolytes	Sodium	ISE	S,U	0.5	Daily	2day	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	Daily	10day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	---	Avoid repeated freeze / thaw cycles
Microbiology	Sputum Culture & Sensitivity	---	Sputum	---	Daily	8day	24 hrs at 4°C	24 hrs at RT	---	---
Microbiology	Sputum Culture For BK	Aerobic	Sputum	1	Daily	60day	2hrs at RT, 1 day at 2-8 °C	at 2-8°C	---	---
Microbiology	Sputum Direct Smear (BK)	---	Sputum	---	Daily	8day	7 days at 2-8°C	24 hrs at 2-8°C	---	---
Microbiology	Sputum Direct Smear.	---	Sputum	---	Daily	3day	24 hrs at 4°C	24 hrs at RT	---	---
Stone Analysis	Stone Analysis	---	Urinary tract Stone	---	Daily	2day	at RT	at RT	frozen sample	---

آزمایشگاه پاتوبیولوژی شهریار



Sector	Test	Assay method	Sample type	S .vol.(ml)	زمان انجام	مدت جوابدهی	Storage	Transport	Reject	Others
Microbiology	Stool culture & Sensitivity	Aerobic	Stool	1	Daily	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	---	---
Parasitology	Stool Examination	بررسی لام به صورت مستقیم	Stool	1	Daily	2day	---	2-8°C hrs at RT	specimen scontaining barium	---
Molecular diagnosis	STD	---	---	---	Daily	7day	---	---	---	---
Parasitology	Stool Trypsin Activity	Chemical	Stool	0.5	Daily	8day	7 days at -20°C	at -20°C	Hemolysis	---
Hormone	Strangilidous ab	Elisa	S	0.5	Daily	14day	5 days at 2-8°C, 2months at -20°C	at 2-8°C, at -20°C	Hemolysis	---
Hormone	Strongyloides	Elisa	S	0.5	Daily	14day	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	Daily	13day	12 hours at 2-8°C 1month 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	Supra Pabic Urine culture & Sensitivity	---	U	---	Daily	3day	fast sending	at RT fast sending	---	---
Genetics	SMA	MLPA	C.B.C WB	2	Daily	30day	2days at 2-8°C	at 2-8°C	Hemolysis, Icteric, Lipemic	'---
Microbiology	Synovial Culture & Sensitivity	---	Synovial	---	Daily	8day	6hrs at 37°C 3days at 4°C	in the fastest time possible	---	---
Body Fluid Examination	Synovial fluid	Aerobic & Ana	Synovial Fluid	2	Daily	2day	The same time must be tested	at RT	Hemolysis, Icteric, Lipemic	---
Microbiology	Throat Direct Smear For BK	---	Throat Swap	---	Daily	8day	24 hrs at RT	24 hrs at RT	---	---
Hormone	T3 Resin Uptake (T3 RU)	Elisa	PH,PE ,S	0.5	Mon,Thu	next day	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	WBE	2	Daily	8day	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	even days	1day	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	Daily	8day	Must be tested the same time	at RT	---	---

آزمایشگاه پاتوبیولوژی شهریار



Sector	Test	Assay method	Sample type	S .vol.(ml)	زمان انجام	مدت جوابدهی	Storage	Transport	Reject	Others
Microbiology	Throat Culture for BK	Microb Culture	S	---	Daily	60day	The same time must be analysis	at RT	---	Avoid using antibioti
Microbiology	Throat Direct Smear	---	Throat Swap	---	Daily	2day	24 hrs at RT,	24 hrs at RT	---	---
Hematology	Thrombin time	clotting	PC	2	Daily	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	Thyrogolobulin	Elisa	S	0.5	Tue	next day	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	---	Daily	8day	Unlimited after fixation,Formalin	Formalin, coatainer RT	Gross: Hemolysis , Icteric, Lipemic	---
Hormone	TNF.Alpha	Elisa	S, PE, PH	1	Daily	10day	6 months at -20°c CRITICAL FROZEN	at -20°c	---	Avoid freeze / thaw cycles
Therapeutic drug monitoring	Topiramate	HPLC	S	1	Daily	10day	2 days at 2-8°c for longer time at -20°	at 2-8°c, at -20°c	frozen sample	---

آزمایشگاه پاتوبیولوژی شهریار

Sector	Test	Assay method	Sample type	S .vol.(ml)	زمان انجام	مدت جوابدهی	Storage	Transport	Reject	Others
Biochemistry	Total Lipid	Colorimetry	S	1	Daily	next day	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	Sat,Tue	1day	6 days at 15-25°c 4week at 2-8°c, 1year at -20°c	at 2-8°c, at -20°c	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
Hormone	Total Thyroxine (T4)	CLIA	PC,PH,PE ,S	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	---	Avoid freeze / thaw cycles
Parasitology	Tourch	ECL	S	4	Daily	17day	CRITICAL FROZEN	at 2-8°c, at -20°c	Hemolysis, Icteric, Lipemic	---
Immunology	Toxo(IgG)Avidity	ECL	S	0.5	Daily	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	Daily	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	---	Daily	8day	at RT fast sending	at RT fast sending	---	---
Microbiology	Tracheal Direct Smear	---	Tracheal	---	Daily	2day	at RT fast sending	at RT fast sending	Hemolysis, Icteric, Lipemic	---

آزمایشگاه پاتوبیولوژی شریار



Sector	Test	Assay method	Sample type	S .vol.(ml)	زمان انجام	مدت جوابدهی	Storage	Transport	Reject	Others
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
Hormone	Triiodothyronine (T3)	CLIA,ECL	PH,PE ,S,Pna	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, Icteric, Lipemic	Avoid freeze / thaw cycles
Hormone	Troponine T	ECL	S.	0.5	Daily	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	Daily	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	Tue	1 day	5 days at 2-8°C, 1 month at -20°C	at 2-8°C, at -20°C	---	---
Microbiology	Tuberculin Test(PPD)	Skin Test	---	---	Daily	4day	---	---	Hemolysis	---
Metabolic disorders	Tyrosine	HPLC	P	1	Daily	10day	2 weeks at -20°C	at -20°C	Hemolysis, Icteric, Lipemic	Fasting 3-6 hours Avoid freeze/ thaw cycles Be separated quickl

آزمایشگاه پاتوبیولوژی شهریار



Sector	Test	Assay method	Sample type	S .vol.(ml)	زمان انجام	مدت جوابدهی	Storage	Transport	Reject	Others
Biochemistry	Urea	photometric	PH,PE ,S	0.5	Daily	next day	7 days at 2 -25°C 1 year 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	10day	The same time must be analysis	at 2-8 °C	---	Avoid using antibioti
Microbiology	Urethral Discharge Direct	Aerobic	Vaginal dis	---	Daily	2day	in the fastest time possible	24 hrs at RT	---	---
Microbiology	Urethral Discharge (C&S)	---	Vaginal dis	---	Daily	8day	24 hrs at RT	24 hrs at RT	---	---
Urine Biochemistry	Urine Volume 24hrs	photometric	U	10	Daily	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	Daily	next day	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	next day	The same day must be analysis	at RT	---	---
Molecular diagnosis	Urine B2-Microglobulin Random	CLIA	U	16cc	Daily	8day	at 2-8°C, at -20°C	at 2-8°C, at -20°C	---	---
Urine Biochemistry	Urine Citrate	Enzymatic	U	5	Daily	7day	1 week at 2-8 °C for longer time at -20	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
Urine Biochemistry	Urine Clearance 24hr	---	U	10	Daily	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	---
Urine Biochemistry	Urine Copper 24 hr	Colorimetry	U	1.5	Daily	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	7day	2 days at RT, 7 Days at 2-8°C, 1 month -20°C	at 2-8°C	---	---
Microbiology	Urine culture & Sensitivity	---	U	10	Daily	3day	24 hrs at 4°C	2 hrs at 4°C	---	---
Urine Biochemistry	Urine Cystine	TLC	U(R & 24)	5	Daily	10day	4 days at 2-8°C Ur.:1month at -20°C	at -20°C	---	The frozen sample
Urine Hormone	Urine Dopamine 24h	HPLC	U	5	Daily	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.	---

آزمایشگاه پاتوبیولوژی شهریار



Sector	Test	Assay method	Sample type	S .vol.(ml)	زمان انجام	مدت جوابدهی	Storage	Transport	Reject	Others
Microbiology	Urine Direct for BK	---	U	10	Daily	8day	24 hrs at 4°C	24 hrs at 4°C	---	---
Urine Biochemistry	Urine Epinephrin	HPLC	U	5	Daily	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 'Protect the light
Urine Biochemistry	Urine K	ISE	U	10	Daily	next day	7 days at RT, 7 Days at 2-8°C, 1 month -20°C	at 2-8°C	---	---
Metabolic disorders	Methotrexate(MTX)	HPLC	S	2cc	Daily	7day	at -20°C	at -20°C	---	Protect the light
Biochemistry	Metanephrine	Elisa	U S	5	Daily	10day	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	Daily	next day	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	Daily	next day	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	Daily	next day	7days at RT, 7 Days at 2-8°C, 1 month -20°C	at 2-8°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
Urine Hormone	Urine Norepinephrine	HPLC	PE, U	1,10	Daily	10day	7 days at 2-8 °c, 1month at -20 °c	at 2-8 °c, at -20 °c	---	Abstain from emotional and mental stress, medication for 3 daya prior sampling
Hormone	Normetanephrine	Elisa	U S	5	Daily	10day	7 days at 2-8 °c, 1month at -20 °c	at 2-8 °c, at -20 °c	---	Abstain from emotional and mental stress, medication for 3 daya prior sampling
Urine Biochemistry	Urine Uric Acid	Photometric	U,S	10	Daily	next day	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	Daily	30day	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	Daily	7day	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	2day	2 days at RT, 7 Days at 2-8 °c, 1month -20 °c	---	---	---

آزمایشگاه پاتوبیولوژی شهریار

Sector	Test	Assay method	Sample type	S .vol.(ml)	زمان انجام	مدت جوابدهی	Storage	Transport	Reject	Others
Biochemistry	Urine Protein Electrophoresis	Electrophoresis	Urine(24h) بدون نگهدارنده	2لوله فالکن 15cc	Daily	9day	7 days at 2-8 °c	at -20°c	---	---
Metabolic disorders	Urine Reducing Substance	Chemical	U	10	Daily	9day	1 day at 2-8 °c, 1 month at -20 °c	---	---	---
Microbiology	Urine Sediment	---	U	10	Daily	2day	24 hrs at 4°c	2 hrs at 4°c	---	---
Microbiology	Urine Sediment culture & Sensitivity	---	U	10	Daily	3day	24 hrs at 4°c	2 hrs at 4°c	---	---
Urine Biochemistry	Urine Urea	photometric	U	10	Daily	next day	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	Daily	7day	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	Daily	next day	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	---	Daily	8day	24 hrs at RT	24 hrs at RT	---	---
Microbiology	Vaginal Direct Smear	---	Vaginal dis	---	Daily	2day	24 hrs at RT	24 hrs at RT	---	---
Therapeutic drug monitoring	Valporate Na (Depakin)	Fluorescence polarization	S	2,10	Daily	10day	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	Daily	9day	2 weeks at -20°c	at -20°c	Hemolysis, Icteric	void free/ thaw cycles protect the light Be separated in refrigerated centrifuge Fasting 3-6 hours
Specific Biochemistry	Vitamin B12	ECL,CLIA	pH, S	0.5	even days	3day	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	Daily	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	Daily	30day	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	Daily	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	Daily	14day	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	2day	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	Daily	9day	2 weeks at -20°c	at -20°c	---	Avoid freez/ thaw cycles protect the light Be separated in refrigerated centrifuge Fasting 3-6 hours
Immunology	Von Willebrand Factor	Coagulation	PC	3	Daily	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	Mon	next day	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	Mon	next day	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	Daily	8day	2 days at 2-8°c, 2 months at -20°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
Molecular	Warfarin Genotyping/Sensitivity	PCR	WB	5	Daily	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	Daily	7day	12 hrs at 2-8°C	at 2-8°C	Hemolysis, Icteric, Lipemic	---
Serology	Widal Agglutination test	Agglutination	S	1	Daily	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	---	Daily	80day	The same time must be tested	24 hrs at RT	---	---
Microbiology	Wound Direct Smear	---	Wet Swap	---	Daily	2day	24 hrs at RT	24 hrs at RT	---	---
Microbiology	Wound Discharge (C & S)	---	Wet Swap	---	Daily	7day	24 hrs at RT	24 hrs at RT	---	---
Serology	Wright Agglutination Test	Agglutination	S	0.5	Daily	3day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	---	---
Serology	Wright Agglutination Test(C.F.S)	Agglutination	S, BF, CSF	0.5	Daily	3day	7 days at 2-8°C, 3 months 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
Biochemistry	ZINC	photometric, Atomic abs	S	0.5	Daily	3day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	---	---