

Sector	Test	Assay method	Sample tyPE	S .vo I.(ml)	زمان انجام	مدت جوابدهی	storage	Transport	reject	others
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	Clotting sample, Hemolysis	Avoid repeated freeze / thaw cycles
Immunology	Anti Neutralizing	Elisa	S	1	Tue	next day	2days at 2-8°c, >2Days: -20 °c Avoid Freeze thaw	at 2-8°c, at -20°c	Hemolysis, Icteric, Lipemic	
Immunology	Anti Diphteria Ab	Elisa	S	0.5	30day	30day	7days 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 tetanus Ab	Elisa	S	0.5	30day	30day	7 days at 2-8°c 3 month at -20°c	at 2-8°c, at -20°c	Hemolysis, Icteric, Lipemic	Be separated quickly. Avoid freeze/ thaw cycle
Immunology	Anti Thyroid Microsomal Ab	CLIA	S,PH,PE,PC	0.5	10day	10day	4days at 2-8°c, 3months at -20°c	at 2-8°c, at -20°c	Hemolysis, Icteric, Lipemi	Be separated until 20-30 min. Avoid freeze / thaw cycle
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		
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.RT	Hemolysis, Icteric, Lipemic	Fasting is recommended
Biochemistry	Acid Phosphatase (Total)	Colorimetry	S (Added 30 Ul acetic acid 1.5 mol/L to 1 ml ofSerum and mix)	0.5	10day	10day	Immediately (up to 1hour)	up to 0.5 hrs.RT	Hemolysis, Icteric, Lipemic	Fasting is recommended



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Biochemistry	Amylase	Enzymatic, Colorimetry	S	0.5	1 day	1 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
Biochemistry	AldolaseSerum	Enzymatic	S	0.5	7day	7day	Rapidly at -20°	at -20°c	Hemolysis mild & gross, Icteric gross, lipemic gross	Serum or plasma must be seperated as soon as possible.
Hormone	Aldosterone	Elisa	S,U	0.5	9day	9day	Rapidly at -20°c	at -20°c	Hemolysis, Icteric, Lipemic	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	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		
Immunology	Anti TPO Ab	ECL,CLIA	S, PE, BF	0.5	odd day	next day	3 days at 2-8°c, 1 months at -20°c	at 2-8°c at -20°c	Hemolysis, Icteric, Lipemic	Be separated until 20-30 min. Avoid freeze / thaw cycle
Hormone	Anti ADH Ab	RIA	S	5	30day	30day	1 month at -20°c CRITICAL FROZEN	at -20°c	Gross Hemolysis	
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
Immunology	C-ANCA	Elisa	S	0.5	13day	13day	2 days at 2-8°c for longer time at -20°c	at 2-8°c, at -20°c	Hemolysis, Gross: Icteric, Lipemic	



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Immunology	Anti Mitochondrial Ab (AMA)	CLIA	S	0.5	10day	10day	1 day at 2-8°c, for longer time at -20°c	at 2-8°c, at -20°c		
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	Lipemic	
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		
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 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	Hemolysis, Icteric, Lipemic	
Immunology	Anti Rubella Ab (IgG)	ECL	S,PE	0.5	Even days	1 day	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	Hemolysis, Icteric, Lipemic	
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		
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		
Immunology	Anti C1q	SRID	S	0.5	8day	8day	7 days at 2-8°c, 3 months at -20°c	up to 0.5 hrs at Rt, at -70°c		



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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 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	Hemolysis	Avoid repeated freeze / thaw cycles
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	Gross: Hemolysis, Lipemic	
Metabolic disorders	Amino Acid	HPLC TLC	U PE	U:10 PE:1	17day 7day	17day 7day	U: 1 day at 2-8°c, PE: 2 weeks at -20°	U: at 2-8°c, PE: at -20°c	Hemolysis	Fasting is recommended. Urine must be fresh. Avoid freez/ thaw cycles Be separated quickl
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		
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		
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		
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



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Immunology	Alpha 1 Anti Trypsin	Enzymatic	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	Hemolysis, Icteric, Lipemic	
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 Rt	Hemolysis, Icteric, Lipemic	Serum or plasma must be seperated as soon as possible
Hormone	Anti Platelet Ab	IFA	S	0.5	Sun	2day	1 week at 2-8°c for longer time at -20°c	at 2-8°c, at -20°c		
Specific Biochemistry	A.C.E	Kineti	S,BF	0.5	7day	7day	Immediately at -20 °c (up to Analyse)	at -20°c	Hemolysis, Icteric, Lipemic	Serum or plasma must be seperated as soon as possible Avoid using medicatio
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, Lipemic	Avoid repeated freeze / thaw cycles
Immunology	Anti Brucella Ab (IgG)	Elisa	PE,S	0.5	6day	6day	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 (IgM)	Elisa	PE,S	0.5	6day	6day	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
Hormone	Anti Desmoglein-1	Elisa	S	0.5	8day	8day	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	8day	8day	5 days at 2-8°c, 14 days at -20°c	at 2-8°c, at -20°c	Hemolysis, Lipemic	



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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		
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	Hemolysis, Icteric, Lipemic	
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		
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 Endomysial Ab (IgA)	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 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, Icteric, Lipemic	Fasting is recommended
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	Hemolysis, Icteric, Lipemic	Fasting is recommended
Biochemistry	Anti Insulin Ab	Elisa	S	0.5	12day	12day	7 days at 2-8°c, 3 months at -20°c	at 2-8°c, at -20°c	Hemolysis, Icteric, Lipemic	
Immunology	Anti RNP	Elisa	S	0.5	13day	13day	Should be stored at 2-8°c for up to 14day	at 2-8°c	Hemolysis, Icteric, Lipemic	
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	



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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. 2-8°c, -20°c	Hemolysis	Fasting ,Avoid stres Rapidly seperated (at 2-8°c), Refrigerated centrifuge must be used Fasting ,Avoid stres
Immunology	Anti MUSK Ab	Elisa	S	0.5	9day	9day	7 days at 2-8°c, 1 month at -20°c	at 2-8°c, at -20°c	Gross Hemolysis	
Immunology	Anti Measles Ab (IgG)	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	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	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
Immunology	Anti Centromer Ab	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	Hemolysis, Icteric, Lipemic	
Immunology	Anti Smith Ab (anti sm )	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	Hemolysis, Icteric, Lipemic	
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		
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	Clotting sample, Hemolysis, Lipemic	
Hormone	Androstendione	Elisa	S	0.5	Mon,Thu	2day	Rapidly at -20 °c	at -20°c	Hemolysis, Icteric, Lipemic	Fasting is recommended



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Immunology	Anti SS-A (Ro) Ab Anti SS-B (La) 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	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, Lipemic	Avoid repeated freeze / thaw cycles
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, Lipemic	Avoid repeated freeze / thaw cycles
Immunology	Anti SCL-70 Ab Topoisomerase	Elisa	S	0.5	16day	16day	1 week at 2-8°c, for longer time at -20°c	at 2-8°c		
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, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
Immunology	Aspergillus (IgG)(IgM)	Elisa	S	0.5	15day	15day	5 days at 2-8°c, 2 month at -20°c	at 2-8°c, at -20°c	Gross Hemolysis	
Body Fluid Examination	Ascites ADA	Enzymatic	S,PE,CSF	0.5	6day	6day	5 days at 2-8 °c 1 month at -20 °	at 2-8°c, at -20°c	Hemolysis	
Microbiology	Ascite culture	Aerobic & Ana	Ascitic fluid	10	8day	8day	in the fastest time possible	24 hrs at 4°c		
Hormone	Adrenalin	Urine:HPLC S:Elisa	PH,PE,S,U	1,10	21day	21day	pelasma: 1month at -20°c u:7day at2-8°c 1month at-20°c plasma freeze	plasma:-20°c, urine: 2-8°c, -20°c	Gross Hemolysis	



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Microbiology	Abscess Direct Smear		Secretions		2day	2day	24 hrs at RT	24 hrs at RT		
Microbiology	Abscess Culture		Secretions		8day	8day	24 hrs at RT	24 hrs at RT		
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, Icteric, Lipemic	
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	Hemolysis	
Hormone	Anti SLA	Elisa	S	0.5	10day	10day	5days at 2-8°c, 2months at -20°c	at 2-8°c, at -20°c	Gross Hemolysis	
Biochemistry	Apolipoprotein Al	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
Biochemistry	Apolipoprotein B	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
Immunology	Anti MPO	Elisa	S	0.5	6day	6day	14 days at 2-8 °c	at 2-8°c		
Immunology	Anti MCV	Elisa	S	1	12day	12day	4 hrs at RT 24hrs at 2-8°c	at -20°c	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
Immunology	Anti Beta 2 Glycoprotein(IgG)	Elisa	S	0.5	9day	9day	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



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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 cycles	
Immunology	Anti Beta 2 Glycoprotein(IgM)	Elisa	S	0.5	9day	9day	1 day at 2-8°c, longer time at -20°c	at 2-8°c, at -20°c	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
Coagulation tests	APCR (Leiden Factor)	Imm.Turb	РС	2	13day	13day	$8~hrs$ at $0~{\rm °c}$ , or longer time at -20 $^{\circ}$	up to 1 hrs. at 0°c, at -20°c	Hemolysis	Serum or plasma must be seperated as soon as possible. Two times centrifugation is recommended. Avoid repeated freeze/thaw cycl
Coagulation tests	Anti Thrombin III	Imm.Turb	РС	2	6day	бday	$8~hrs$ at $0~{\rm °c}$ , or longer time at -20 $^{\circ}$	up to 1 hrs. 0°c,-20°c	Hemolysis	Serum or plasma must be seperated as soon as possible. Two times centrifugation is recommended. Avoid repeated freeze/thaw cycle
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	Hemolysis, Icteric, Lipemic	Refrigerated Centrifuge
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		
Serology	Amoebiasis Ab	Elisa	S	0.5	7day	7day	2 days at 2-8°c	at 2-8°c		
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	



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Immunology	Anti Borrelia Ab (IgG)	CLIA	S,PE,PC,C	0.5	Sat,Tue	2day	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(IgM)	CLIA	S,PE,PC,C	0.5	Sat,Tue	2day	1 week at 2-8°c for longer time at -20°	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, Icteric, Lipemic	
Hormone	Adiponectin	Elisa	S	1	21day	21day	5 days at 2-8°c, 1 month at -20°c	at 2-8°c, at -20°c	Hemolysis	
Microbiology	Blood Culture & sensitivity	Aerobic	WB	10%کمتر از حجم کشت نرمال	21day	21day	the same time transported at 37°c	at RT< 1hrs		
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	
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	exposure to light ,Hemolysis	Avoid repeated freeze / thaw cycles
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		
Urine Analysis	Bence Jones Protein		U	5	2day	2day			Less than 5cc	
Microbiology	Breast Direct Smear		Breast dis		2day	2day	the fastest time after receiving the sample	at RT		



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Microbiology	Breast Culture	Aerobic & Ana	Breast dis	5	8day	8day	the fastest time after receiving the sample	at RT		
Microbiology	Body Fluid direct Smear		Body Fluid		2day	2day	at RT	at RT		
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	
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	Hemolysis, Icteric, Lipemic	
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
Specific Biochemistry	Blood Ceruloplasmin	Imm.Turb	S ,PE	0.5	8day	8day	7 days at 2-8°c, or longer time at -20°c	at 2-8°c, at -20°c	Hemolysis, Icteric, Lipemic	
Molecular diagnosis	Urine B2-Microglobulin Random	CLIA	U	16сс	5day	5day	at 2-8°c, at -20°c	at 2-8°c, at -20°c		
Biochemistry	B2-Microglobulin	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	Avoid repeated freeze/thaw cycle
Parasitology	Bone marow Biopsy	Sectioning and Staining	Tissue		Daily	10day	Unlimited after fixatio		اتوليز بودن	The volume of the fixable should be least at 5 times tissue volum



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Parasitology	Bone marow Aspiration	Direct smear	Smear	Several Slid	Daily	10day	at RT	at RT	اتوليز بودن	
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	Hemolysis, Icteric, Lipemic	
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	Hemolysis, Frozen, Clotting, Rouleaux formation	
Coagulation tests	Bleeding Time	Duce			Daily	next day				
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		
Metabolic disorders	Blood Amino Acid ( HPLC) chromatography	HPLC	PE	U: 3 Others: 1	10day	10day	1 day at 2-8°c, 1 month at -20°c	at 2-8°c, at -20°c	Hemolysis	Plasma sample be separated quickly
Microbiology	Bal Culture & Sensitiv		Secretions		8day	8day	24 hrs at 4°c	24 hrs at RT		
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	
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	



Sector	Test	Assay method	Sample tyPE	S .vo I.(ml)	زمان انجام	مدت جوابدهی	storage	Transport	reject	others
Microbiology	Catheter Culture		U	20	4day	4day	24 hrs at 4°c	2 hrs at 4°c		
Immunology	Cold Agglutinine	Agglutination	S	0.5	10day	10day	1 day at 2-8°c	at 2-8°c		
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,	Hemolysis, Icteric, Lipemic	Avoid repeated freeze/thaw cycles Fasting is recommended
Biochemistry	СРК	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, Lipemic	Avoid repeated freeze / thaw cycles
Electrolytes	Chloride	ISE	S,U 24,U,PH	0.5	5day	5day	7 days at 2-8 °c	at 2-8°c	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
Hormone	Choromogranin A	Elisa	S	1	10day	10day	3 months at -20°c CRITICAL FROZEN	at -20°c	Gross Hemolysis	
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	Hemolysis, Lipemic	
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	
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



Sector	Test	Assay method	Sample tyPE	S .vo I.(ml)	زمان انجام	مدت جوابدهی	storage	Transport	reject	others
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	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
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
Pathology	Consultation Slide	Direct smear	Stain Slide		7day	7day	at RT	at RT		
Serology	CH50	Elisa	S	0.5	5day	5day	Rapidly at -20°c	at -20°c	Hemolysis	Avoid repeated freeze / thaw cycles
Immunology	Cytomegalovirus (CMV) IgG	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, 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, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
Hematology	CBC	اتوماتیک دستگاهی	WB	3	Daily	next day	4 hrs at RT, 1days at 2-8°c	at RT, at 2-8°c	Hemolysis, Frozen, Clotting, Incorrect anticoagulant	
Hematology	CD11abc	Flow cytometry	€WB	2	7day	7day	1 day at 2-8°c	at 2-8°c	Hemolysis, Frozen, Clotting, Incorrect anticoagulant	
Immunology	CD3-CD4-CD8-CD16- CD19-CD56-CD25-CD7- CD20-CD18-CD2-CD21- CD27-CD10-CD23-CD5- CD14	Flow cytometry	WB(EDTA)	2	10day	10day	1 day at 2-8°c	at 2-8°c	Hemolysis,clotting, frozen, incorrect, anticoagulant	



Sector	Test	Assay method	Sample tyPE	S .vo I.(ml)	زمان انجام	مدت جوابدهی	storage	Transport	reject	others
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	
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		
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
Hormone	Clonazpam	HPLC	S	2	odd day	2day	2 days at 2-8°c for longer time at -20°	at 2-8°c at-20°		
Immunology	Clostridium Toxin A & B	Elisa	Stool	1gr	8day	8day				
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	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	
Hormone	Cell Free DNA(N.I.P.T)	NGS	WB	10	30day	30day	2 days at 2-8°c	at' 2-8°c	Hemolysis	
Hormone	Cortisol	ECL	S U 24	0.5	Thu 8day	1day 8day	7 days at 4-25 ℃	at 4-25°c	Hemolysis, Icteric, Lipemic	Sampling time between 6-8 am. Avoid stress ,using medication



Sector	Test	Assay method	Sample tyPE	S .vo I.(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, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
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
Immunology	CMV antigenemia ( pp-65 )	IFA	WB(EDTA)	3	13day	13day	6 hrs at RT	4 hrs. RT	Hemolysis, Frozen, Clotting, Incorrect anticoagulant	
Pathology	Consult Block pathology	Sectioning and Staining	Paraffin Block		Daily	5day	Unlimited after fixation.		اتوليز بودن	
Hormone	C-Peptide	ECL	S	0.5	10day	10day	Immediately at -20 °c (up to Analyse)	at -20°c	Hemolysis, Icteric, Lipemic	Fasting is recommended Rapidly seperated (at 2-8 °c)
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	CSF Direct Smear		CSF		2day	2day	at RT fast sending	at RT fast sending		
Body Fluid Examination	CSF LDH	photometric	CSF	0.5	Daily	next day	6 week at-20°c	at 2-8°c	Hemolysis, Icteric, Lipemic	
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	Hemolysis	



Sector	Test	Assay method	Sample tyPE	S .vo I.(ml)	زمان انجام	مدت جوابدهی	storage	Transport	reject	others
Body Fluid Examination	CSF Gram Stain		CSF		3day	3day	at RT fast sending	at RT fast sending		
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	
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
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	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 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	Hemolysis, Icteric, Lipemic	
Therapeutic drug monitoring	(Cyclosprine)Sandimmun	ECL	WB(EDTA)	1	9day	9day	at 2-8 °c	at 2-8°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, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
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	Hemolysis, (Mild, Gross)	



Sector	Test	Assay method	Sample tyPE	S .vo I.(ml)	زمان انجام	مدت جوابدهی	storage	Transport	reject	others
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		Avoid repeated freeze / thaw cycles
Immunology	Cystatin C	Colorimetry	S, PE	0.5	9day	9day	2 days at 2-8°c, for longer time at -20°c	at -20°c		Avoid repeated freeze / thaw cycles
Hormone	Calcitonin	CLIA	S	0.5	10day	10day	4 days at 2-8 °c Ur.:1month at -20 °c	at 2-8°c, at -20°c		Serum or plasma must be seperated as soon as possible. Rapidly seperated (at 2-8°) Fasting
Immunology	Calprotectine	Imm.Chrom	Stool	0.5	7day	7day	7 days at 2-8°c	at 2-8°c at -20°c		
Immunology	Cryoglubulin	Percipitation	S	1	9day	9day	2 days at RT	at RT	Hemolyse, Ictreic, Lipemic. Whole blood drawn in a prewarmed (37 C) syringe. Frozen, Storage at 2-8 C	Fasting is recommended ار سال در دمای محیط
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		
Serology	CRP High Sensitive	Imm.Turb	S,PH,BF	0.5	10ay	10day	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
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		



Sector	Test	Assay method	Sample tyPE	S .vo I.(ml)	زمان انجام	مدت جوابدهی	storage	Transport	reject	others
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	Hemolysis, Icteric, Lipemic	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		
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, Lipemic	Avoid repeated freeze / thaw cycles
Therapeutic drug monitoring	Digoxin	CLIA	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	Avoid repeated freez/ thaw cycles
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	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
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	Clot ,Hemolys	
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	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	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
Microbiology	Ear Direct Smear		Ear Swabs		2day	2day	24 hrs at RT	24 hrs at RT		



Sector	Test	Assay method	Sample tyPE	S .vo I.(ml)	زمان انجام	مدت جوابدهی	storage	Transport	reject	others
Microbiology	Ear Discharge (C&S)		Ear Swabs		4day	4day	24 hrs at RT	24 hrs at RT		
Microbiology	Eye dis. Culture		eyes Swap		Daily	2day	24 hrs at RT	24 hrs at RT		
Microbiology	Eye Culture & Sensitivity		eyes Swap		8day	8day	24 hrs at RT	24 hrs at RT		
Microbiology	Endocervix direct smear		Vaginal/prostati c/Urethra/disch arge		2day	2day	24 hrs at RT	24 hrs at RT		
Microbiology	Endocervix culture		Vaginal/prostati c/Urethra/disch arge		8day	8day	24 hrs at RT	24 hrs at RT		
Cytology	E-Prep	direct Smear	E Prep		6day	6day				
Microbiology	Endocervix direct smear For BK		Vaginal/prostati c/Urethra/disch arge		8day	8day	24 hrs at 2-8°c	at 2-8°c		
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	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles



Sector	Test	Assay method	Sample tyPE	S .vo I.(ml)	زمان انجام	مدت جوابدهی	storage	Transport	reject	others
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	11day	11day	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
Microbiology	Endometrial Smear for BK		Endometrial		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		
Therapeutic drug monitoring	Ethosuximide	HPLC	S	0.5	Daily	2 day	2 days at 2-8°c ,for longer time at -20°c	at 2-8°c, at -20°c		
Molecular diagnosis	EBV PCR(Quantitative)	Qualitave pcr	S ,PE	TIssue 5mm Other 1ml	10day	10day	WB : 8 hrs RT, 3 days 2-8 Others: 24 hrs RT, 5 days 2-8 1 yr -20°c Tissue Fresh Freeze 1 yr. Paraffin block at RT (unlimited)	at 2-8°c	incorrect	



Sector	Test	Assay method	Sample tyPE	S .vo I.(ml)	زمان انجام	مدت جوابدهی	storage	Transport	reject	others
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		
Biochemistry	Fasting Blood Sugar	Photometric	S ,PE	0.5	Daily	next day	1 day at20-25°c 7 days at 4-8°c	at 2-8°c, at -20°c	Hemolysis	
Biochemistry	FBS	Photometric	S ,PE	0.5	Daily	next day	1 day at20-25°c 7 days at 4-8°c	at 2-8°c, at -20°c	Hemolysis	
Hormone	Ferritin	ECL	S	0.5	Even days	next day	24 hrs at RT 7day at 2-8°c 1year at -20 °c		Hemolysis, Lipemic	Avoid repeated freeze / thaw cycles
Hormone	Folat RBC	CLIA	C.B.C	1,2	7day	7day	fast sending	at 2-8°c, at -20°c		
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
Immunology	FTA Ab (IgG)	IF	S.CSF	0.5	10day	10day	4 hrs at 4-25°c, 2 weeks at -20°c , 3 months at -70°c	at 2-8°c, at -20°c	Hemolysis, Icteric, Lipemic	
Coagulation tests	FDP	Agglutination	PC( platelet - poor plasma)	1	Daily	2day	8 hrs at 20-25 °c ,one mounth at -20 °c	3 hrs.at 20-25 °c, at- 20 °c	Hemolysis, Icteric, Lipemic	Serum or plasma must be seperated as soon as possible
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	Gross Hemolysis	



Sector	Test	Assay method	Sample tyPE	S .vo I.(ml)	زمان انجام	مدت جوابدهی	storage	Transport	reject	others
Parasitology	F.I.O.B.T	Imm-chem	Stool	10	10day	10day	fast sending	fast sending	Not a blood sample and diarrhea	
Coagulation tests	Fibrinogen	gravimetric	РС	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	Clot ,Hemolys	Be separated quickly
Immunology	Factor XI	Coagulation	PC	1	7day	7day	2 hrs at RT, 14 days at -20°c, 6months at -80°c	at -20°c	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 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	
PCR	Factor XIII	PCR	WB(EDTA)	1	17day	17day	1 week at 2-8°c for longer time at -20	at 2-8°c		
Coagulation tests	Factor V	PCR	WB(EDTA)	1	13day	13day	1 week at 2-8°c for longer time at -20°	at RT, at2-8°	Hemolysis, Frozen, Clotting, Incorrect anticoagulant	Avoid repeated freeze/thaw cycles Be separated quickly/Two times centrifugation is prefered
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	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	



Sector	Test	Assay method	Sample tyPE	S .vo I.(ml)	زمان انجام	مدت جوابدهی	storage	Transport	reject	others
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	Hemolysis, Icteric, Lipemic	
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	Hemolysis, Icteric, Lipemic	
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
Microbiology	Fungi Direct Smear	Direct smear	Skin,scalp,BF		Daily	21day	The same day must be analysis			Avoid using antibiotic, washing
Cytology	FNA (Fine Needle Asp)	Direct smear	BF		7day	7day	unlimited time for prepared slides			
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		
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	Hemolysis, Icteric, Lipemic	Cold chain compliance during transport. Avoid repeated freeze / thaw cycles
Coagulation tests	Factor VIII	Coagulation	РС	1	15day	15day	1 week at 2-8°c for longer time at -20°	at 2-8°c		
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			



Sector	Test	Assay method	Sample tyPE	S .vo I.(ml)	زمان انجام	مدت جوابدهی	storage	Transport	reject	others
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	
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		
Hormone	Free cortisol	CLIA	U	5	13day	13day	7 days at 4-25°c	20-25°		
Immunology	Free Kappa	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		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
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	Hemolysis, Icteric, Lipemic	Fasting is recommended
Coagulation tests	Factor II	Coagulation	РС	1	7day	7day	2 hrs at RT 14days at -20°c 6months at -80°c	at -20°c	Hemolysis,incorrect, anticoagulant	Avoid repeated freeze / thaw cycles Be separated quickly / Two times centrifugation is preferred.
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, Icteric, Lipemic	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.



Sector	Test	Assay method	Sample tyPE	S .vo I.(ml)	زمان انجام	مدت جوابدهی	storage	Transport	reject	others
Biochemistry	Gamma Glutamyl transferase	Photometric	PE, S	0.5	Daily	next day	7 days at20-25°c	at 2-8°c, at -20°c	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
Hormone	GH	ECL	S	0.5	10day	10day	1 week at 25 °c , 3weeks at 4 °c	at 2-8°c, at -20°c	Hemolysis	Fasting is recommended
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		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	Hemolysis	ingestion 50 gr.Oral glucose
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	Hemolysis	Fasting is recommended
Hormone	Gastrin	CLIA	S,PE,PH	0.5	Sun	2day	5 hrs at 4°c ,30 days at -20°c ,for longer tme at -70°	0.5 hrs. 4-25c°, -20°c,-70°c	Hemolysis, Icteric, Lipemic	Rapidly seperated (at 2- 8 °c).Avoid repeated freez/thaw cycles.Refrigerated Centrifuge Fasting The frozen sample



Sector	Test	Assay method	Sample tyPE	S .vo I.(ml)	زمان انجام	مدت جوابدهی	storage	Transport	reject	others
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	Galactomenan	Elisa	S	0.5	8day	8day	at 2-8°c	at 2-8°c		
Microbiology	Gastric Lavaage For Bk		Gastric Lavaage		8day	8day	24 hrs at 2-8°c,	24 hrs at 2-8°c		
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		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.
Microbiology	Giardia Antigen Stool	EliSa	S	2	10day	10day	2 days at 2-8°c, 1months Freeze	at 2-8°c		
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	Hemolysis	



Sector	Test	Assay method	Sample tyPE	S .vo I.(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			
Immunology	HLA-B5	PCR	WB(EDTA)	3	10day	10day	12 hrs at 2-8°c,	at 2-8°c	Hemolysis,clotting, frozen,incorrect, anticoagulant	
Molecular diagnosis	HLA-B27	PCR	WB	3	13day	13day	12 hrs at 2-8°c	at 2-8°c	Hemolysis,clotting, frozen,incorrect, anticoagulant	
Immunology	HLA-B51	PCR	WB(EDTA)	3	14day	14day	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,clotting, frozen,incorrect, anticoagulant	
Hormone	HLA DQ2 HLA DQ8	PCR	WB	10cc	13day	13day	7 days at 2-8°c	at 2-8°c	Hemolysis, Icteric, Lipemic	
Immunology	HLA-DR4 HLA-DR3	PCR	WB(E or H)	3	13day	13day	12 hrs at 2-8°c	at 2-8°c	Icteric,	
Pathology	Her2(fish)	Sectioning and Staining	Block		20day	20day	at RT	at RT	Lipemic	همراه داشتن تمامی فرم های مولکولی و پاتولوڑی و جواب آن الزامی میباشد
Immunology	Heterophile Ab (Paul Bunnell)	Hemaglutination	S	1	7day	7day	1 week at 2-8°c,	at 2-8°c		



Sector	Test	Assay method	Sample tyPE	S .vo I.(ml)	زمان انجام	مدت جوابدهی	storage	Transport	reject	others
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 (IgA)	Elisa	S,PH,PE	0.5	Sat,Tue	next day	2 days at 2-8°c >2 days: -20 °c			
Immunology	HSV Ab 1+2 (IgG) HSV Ab 1+2 (IgM)	Elisa	S	0.5	10day	10day	1week at 2-8°c for longer time at -20°c	at 2-8°c, at -20°c	Hemolysis,Icteric	Avoid repeated freeze / thaw cycles
Immunology	HIV P 24 Ag	Elisa	S	0.5	Mon,SatThu	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			
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	Hemolysis, Lipemic	
Immunology	Helicobacter pylori (IgM)	Elisa	S,PH,PE	0.5	Sun,Wed	next day	2 days at 2-8°c >2Days: -20 °c			
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	Hemolysis, Icteric, Lipemic	



Sector	Test	Assay method	Sample tyPE	S .vo I.(ml)	زمان انجام	مدت جوابدهی	storage	Transport	reject	others
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, 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	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	HAV Ab (Total)	ELFA	S,PE	0.5	Sun ,Wed	2 day	1 week at 2-8°c for longer time at -20°c	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	HDV Ab	Elisa	S, PE, PH, BF	0.5	Mon,Thu	2day	5 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
Immunology	H.pylori Ag (Stool)	ELISA	Stool	1	Sat,Tue	next day	2 days at 2-8°c for longer time at -20°c			Avoid repeated freeze / thaw cycles
Immunology	Hydatid Ab (IgG)	Elisa	S,PE	0.5	7day	7day	1 week at 2-8°c, for longer time at -20°c	at 2-8°c, at -20°c		
Biochemistry	Homocysteine	Colorimetry	S	0.5	6day	6day	1 hrs at 0°c	0.5 hrs at 0°c	Hemolysis, Lipemic	
Hematology	Hemoglobin	cell counter	Wb	0.5	Daily	next day	4 hrs at RT, 1 days at 2-8°c	at 2-8°c	Hemolysis, clotting, frozen, incorrect, anticoagulant	



Sector	Test	Assay method	Sample tyPE	S .vo I.(ml)	زمان انجام	مدت جوابدهی	storage	Transport	reject	others
Electrophoresis	Hb Electrophoresis	Electrophoresis	PE	3	7day	7day	7 days at 2-8°c	at 2-8°c	Clotting	
Hormone	Haptoglobolin	Immunoassay	S,PE,PH	0.5	Thu	2 day	1 week at 2-8°c for longer time at -20°	at 2-8°c, at -20°c	Hemolysis	
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	Hemolysis, Icteric, Lipemic	
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		
Immunology	HSV Ab 1+2 (IgG) HSV Ab 1+2 (IgM)	CLIA	S,PH,PE	0.5	7day	7day	4 hrs at RT, 7days at 2-8°c 3months at -20°c	at 2-8°c, at -20°c	Hemolysis, Icteric,	Avoid repeated freeze / thaw cycles
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, Occular diS.		8day	8day				



Sector	Test	Assay method	Sample tyPE	S .vo I.(ml)	زمان انجام	مدت جوابدهی	storage	Transport	reject	others
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	incorrect, anticoagulant, (heparin) Hemolysis	
Molecular diagnosis	HCV PCR	Real time pcr	S, PE	0.5	8day	8day	at -20°c	at -20°c	incorrect	
Molecular diagnosis	HCV genotyping	PCR	PE	1	8day	8day	1 day at 2-8°c for longer time at -20°c			
Immunology	HEV.Ab	Elisa	S	0.5	Mon	2day	1 week at 2-8°c, longer time at -20,	at 2-8°c at -20°c	Hemolysis, Icteric	
Molecular diagnosis	HDV PCR	Qualitave pcr	PE,S	1	8day	8day	at -20°c	at -20°c		



Sector	Test	Assay method	Sample tyPE	S .vo I.(ml)	زمان انجام	مدت جوابدهی	storage	Transport	reject	others
Molecular diagnosis	HCV viral load (Quantitative)	Real time	S, PE	0.5	8day	8day	at -20°c	at -20°c	incorrect	
Molecular diagnosis	HTLV PCR	Qualitave pcr	WB (EDTA),CSF	1	8day	8day	2 days at RT, 2week at 2-8°c	at 2-8°c	incorrect, anticoagulant, (heparin) Hemolysis, FROZEN SAMPLE CLOTTING	
Molecular diagnosis	HPV genotyping	Real time pcr- blottiry	L.B.C	0.5	8day	8day	at 2-8°c		incorrect	
Hormone	Islet cell Ab	IFA	S	0.5	13day	13day	at 2-8°c, at -20°c	at 2-8°c, at -20°c		
Hormone	intrinsic factor	Elisa	S	0.5	8day	8day	at 2-8°c, 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		
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	IgGSerum	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



Sector	Test	Assay method	Sample tyPE	S .vo I.(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, 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
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	Hemolysis, gross	
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		Rapidly seperated (at 2-8°c) Fasting is recommended
Hormone	IL-6	ECL	S ,PE, CSF	0.5	10day	10day	2 months at -20°c CRITICAL FROZEN	at -20°c	Hemolysis, Icteric, Lipemic	Be separated quickly
Parasitology	IHC		Biopsy, block		15day	15day	Minimum 1 year after fixation (tissue) or block preparation.	at RT		
Immunology	Inhibin-A	Elisa	S, PH	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, 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	Hemolysis, Icteric, Lipemic	Be separated quickly
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	Hemolysis, Icteric, Lipemic	Fasting is recommended Rapidly seperated (at 2-8°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		



Sector	Test	Assay method	Sample tyPE	S .vo I.(ml)	زمان انجام	مدت جوابدهی	storage	Transport	reject	others
Immunology	Immuno Electrophoresis	Electrophoresis	S	0.5	7day	7day	2 days at 2-8°c ,for longer time at -20°c	at 2-8°c, at -20°c		
Immunology	IgG Subclass 1-2-3	Nephelometry	S	1	10day	10day	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 Fasting is recommended
Hormone	Iso hemeagglutiniue (Anti B)	Agglutination	S	0.5	5day	5day	7 days at 2-8°c, for longer time at -20°c	at 2-8°c, at -20°c	Hemolysis, Icteric, Lipemic	
Hormone	Iso hemeagglutiniue (Anti A)	Agglutination	S	0.5	5day	5day	7 days at 2-8°c, for longer time at -20°c	at 2-8°c, at -20°c	Hemolysis, Icteric, Lipemic	
Molecular diagnosis	Jak-2(V617F) mutation	PCR	WB(EDTA)	5	18day	18day	2 days at RT, 5 days at 2-8°c	at 2-8°c		
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		
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
Biochemistry	Lactat Dehydrogenase (LDH)	photometric	PH ,PE, S	0.5	Daily	next day	6 week at-20°c	at 2-8°c	Hemolysis, Icteric, Lipemic	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		
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	Hemolysis	


Sector	Test	Assay method	Sample tyPE	S .vo I.(ml)	زمان انجام	مدت جوابدهی	storage	Transport	reject	others
Biochemistry	Lipase	Photometric	S	0.5	Even days	2day	1 week at 25°c, 3 weeks at 4°c	at 2-8°c, at -20°c		Fasting is recommended
Biochemistry	Latex(Quantitative)RF	Turbidimetric	S	0.5	Daily	next day	7 days at 2-8°c, 3months at -20°c		Hemolysis	
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		
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		
Hematology	LE. Cell	بررسی اسمیر	WB	10	2day	2day	The same time must be tested			
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
Hormone	Leptin	Elisa	S	0.5	33day	33day	4 days at 4°c for longer time at -20°c	at 2-8°c, at -20°c		Fasting is recommended
parasitology	Leishman Body	Slide	Skin wound dis,BMA BMA	2slide	2day	2day	Unlimited after fixation at RT	at RT		
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
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.



Sector	Test	Assay method	Sample tyPE	S .vo I.(ml)	زمان انجام	مدت جوابدهی	storage	Transport	reject	others
Biochemistry	Lactate	Chemical	Ph	1	4day	4day	24 hrs at 20-25°c, do not ferrz sample	at RT	Hemolysis, Icteric, Lipemic	no use monitol
Specific Biochemistry	Lipoprotein a	Imm.Turb	S,PH ,PE	0.5	8day	8day	mmediately at 2-8°c, at -20°c (up to Analyse)	at 2-8°c, at -20°c		Serum or plasma must be seperated as soon as possible.Fasting is recommended
Immunology	Lupus Anti Coagulant	Coagulation	PC	2	7day	7day	up to 4 hrs at( 20-5°c, 20+5°c) up to 1 month at -20°c ,	1 hrs at RT, -20°c	Clot, Incorrect, anticoagulant, Icteric for non-coagulation method.	Avoid repeated freeze / thaw cycles. Be separated quickly / Two times centrifugation is prefered.
Microbiology	Lymth Lode Culture for BK		Lymth Lode		60day	60day	24 hrs at 2-8°c	24 hrs at 2-8°c	insufficient	
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	Hemolysis, Icteric, Lipemic Frozen	
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		Avoid repeated freeze / thaw cycles
Serology	2 Mercoptoethanol (2ME)	Agglutination	S	0.5	3day	3day	7 days at 2-8°c, 3months at -20°c	at 2-8°c, at -20°c	Hemolysis	



Sector	Test	Assay method	Sample tyPE	S .vo I.(ml)	زمان انجام	مدت جوابدهی	storage	Transport	reject	others
Serology	Mono test	Agglutination	S	0.5	17day	17day	7 days at 2-8°c, 3months at -20°c	at 2-8°c, at -20°c	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	Hemolysis	
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		
parasitology	Malaria	بررسی اسمیر خون محیطی و نوک انگشت	PE	3	2day	2day	Unlimited after fixation at RT			
Biochemistry	Magnesium (Mn)	Photometric	BF,PH,S ,U(R&24)	0.5,1	17day	17day	7days at 2-8°c, 3months at -20°c	at 2-8°c, at -20°c	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
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		Clot	
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	Clot	
Microbiology	Mens.Blood Culture For Bk		Blood		60day	60day	24 hrs at 2-8°c,	at 2-8°c		
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	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles



Sector	Test	Assay method	Sample tyPE	S .vo I.(ml)	زمان انجام	مدت جوابدهی	storage	Transport	reject	others
Metabolic disorders	Mucopolysaccharides (MPS) urine	Chemical	U	5	7day	7day	1 month at -20°c CRITICAL FROZEN	at -20°c		
Molecular diagnosis	MY. tuberculosis complex (MTC)PCR	Real time pcr	Urine,Sputum	0.5	8day	8day	at 2-8°c	at 2-8°c	Incorrect	
Molecular diagnosis	MTHFR (C677T)Mutation(E)	pcR	WB	5	11day	11day	3 days at RT 1week at 2-8°c	at 2-8°c	frozen,incorrect, anticoagulant,clotting, hemolysis	
Molecular diagnosis	MTHFR (A1298C)Mutation(E)	Real time pcr	WB	5	11day	11day	at 2-8°c	at 2-8°c	incorrect	
Metabolic disorders	MSUD test (DNPH test)	TLC	Filter Pape	4 drop	Daily	5day	4 days at 2-8°c , 1month at -20°c	at 2-8°c, at -20°c		
Hormone	Mercury (HG)	Atomic abs	WB (E), U (R), (24h)	2	12day	12day	5 days at RT, 7 days at 2-8°c, 1 month at -20°c	at RT, at 2-8°c	Clotting, Incorrect, anticoagulant	
Microbiology	Menstruation blood Direct Smear		Blood		2day	2day	at RT fast sending	at RT fast sending		
Microbiology	Menstruation blood Culture & Sensitivit		Blood		8day	8day	at RT fast sending	at RT fast sending		
Microbiology	Nasal Direct Smear		Wet Swap		2day	2day	24 hrs at RT	24 hrs at RT		
Hematology	NBT		WB(EDTA)	1	7day	7day	The same day at 2-8 °c	at 2-8°c	Hemolysis, Frozen, Clotting, Incorrect anticoagulant	



Sector	Test	Assay method	Sample tyPE	S .vo I.(ml)	زمان انجام	مدت جوابدهی	storage	Transport	reject	others
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	Hemolysis, Lipemic, Icteric	
Microbiology	Nasal Culture & Sensitivity		Wet Swap		8day	8day	24 hrs at RT	24 hrs at RT		
Immunoglobulins	Neuronal Ab(Paraneo)	Immunobolot	S	1	10day	10day	5 days at 2-8°c, 2months at -20°c	at 2-8°c, at -20°c	Gross: Hemolysis, Lipemic	
Urine Analysis	NMP22	Imm.Chrom	U	5	5day	5day	2 hrs at RT	at RT		
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		
Microbiology	Neck Aspiration Culture		Neck		8day	8day	at RT fast sending	at RT fast sending		
Hematology	Osmotic Fragility test	Hemolysis- Photometric	WB(EDTA)	3	10day	10day	The same day at 2-8	at 2-8°c	Hemolysis, Frozen, Clotting, Incorrect anticoagulan	Fasting is recommended
Hormone	17-OH Progestrone	Elisa	PH ,PE, S	0.5	10day	10day	5 days at 2-8°c, 1months at -20°c			



Sector	Test	Assay method	Sample tyPE	S .vo I.(ml)	زمان انجام	مدت جوابدهی	storage	Transport	reject	others
Biochemistry	OsmolalitySerum/Urin	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		
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		Protect the light
Cytology	Fluid cytology	Direct smear	BF,U		7day	7day	The same time must vbe analysis	at 2-8°c		
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
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	Hemolysis, Icteric, Lipemic	
Specific Biochemistry	Pb(Lead)	Atomic abs	C.B.C	2	4day	4day	5days at RT, 7Days at 2-8°c, 1month at -20°c	at 2-8°c, at -20°c	Incorrect, anticoagulant, Clotting	
Metabolic disorders	Phenylketonurina		U	10	5day	5day	2days at 2-8°c, at -20°c	at 2-8°c, at -20°c	Hemolysis	
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	Clot severe ,Hemolysis	



Sector	Test	Assay method	Sample tyPE	S .vo I.(ml)	زمان انجام	مدت جوابدهی	storage	Transport	reject	others
Hematology	PBS requested	wrilght giesma stain	WB	1	Daily	next day	4 hrs at RT 1days at 2-8°c,	at 2-8°c	Hemolysis,clotting, frozen,incorrect, anticoagulantI	
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	Prolactin(Macro)	ELISA	S	0.5	5day	5day	1 week at 2-8°c for longer time at -20°	at 2-8°c, at -20°c	Hemolysis, Icteric, Lipemic	Rapidly seperated (at 2-8°c)
Hormone	Prolactin	ELISA	S ,pH, PE	0.5	1day	1 day	4 days at 2-8°c, 3 months at -20°c	at 2-8°c, at -20°c	Hemolysis, Icteric, Lipemic	
Immunology	P-ANCA	Elisa	S	0.5	13day	13day	2 days at 2-8°c for longer time 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	Р.Т.Н	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	Hemolysis, Icteric, Lipemic	
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		
Immunology	Procalcitonin	Elisa	S, PE, PH	1	Sat,Tue	2day	5 days at 2-8°c , 1month at -20°c	at 2-8°c, at -20°c	Hemolysis	
Therapeutic drug monitoring	Phenobarbital	Fluorescence polarization	S	1	7day	7day	2 days at 2-8°c for longer time at -20°	at 2-8°c, at -20°c		



Sector	Test	Assay method	Sample tyPE	S .vo I.(ml)	زمان انجام	مدت جوابدهی	storage	Transport	reject	others
Molecular diagnosis	Prothrombin G20210A or FII Mutation(E)	PCR	WB(EDTA)		13day	13day	1 week at 2-8°c for longer time at -20°			
Coagulation tests	Protein C	Clotting	РС	0.5	6day	6day	up to 4 hrs at 20±5°c up to 1month at -20°c,6 m.at -70°	at -20°c at -70°c	Clot, Icteric, Incorrect anticoagulant Icteric & Lipemic for non coagulation method	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 prefered
Coagulation tests	Protein S	clotting	РС	2	6day	6day	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	Clot, Icteric, Incorrect anticoagulant Icteric & Lipemic for non coagulation method	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 prefered
Cytology	Pap Smear(slide)	direct Smear	Smear		бday	бday	at RT	at RT		



Sector	Test	Assay method	Sample tyPE	S .vo I.(ml)	زمان انجام	مدت جوابدهی	storage	Transport	reject	others
Hormone	Phenylalanine	HPLC	Р	1	7day	7day	2 weeks at -20°c	at -20°c	Hemolysis	Avoid freez/ thaw cycles Be separated quickly Fasting 3-6 hours
Biochemistry	Protein Electrophorsis	Electrophoresis	S	0.5	7day	7day	4 days at 2-8°c for longer time at -20°c		Hemolysis	
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		
Microbiology	Pleural Fluid D.Smear/CBC		Pleural		2day	2day	24 hrs at 4°c	in the fastest time possible		
Microbiology	Perianal Direct Smear/CBC		Perianal		2day	2day	fast sending	in the fastest time possible		
Molecular diagnosis	PAI-1 (844 A/G)E	PCR	WB(EDTA)		7day	7day	1 week at 2-8°c for longer time at -20			
Molecular diagnosis	PAI-1(675 4G/5G)E	PCR	WB(EDTA)		11day	11day	1 week at 2-8°c for longer time at -20			
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	Hemolysis, Icteric, Lipemic	



Sector	Test	Assay method	Sample tyPE	S .vo I.(ml)	زمان انجام	مدت جوابدهی	storage	Transport	reject	others
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
Microbiology	Pleural Direct smear (BK)		Pleural		8day	8day	24 hrs at 2-8°c	24 hrs at 2-8°c		
Microbiology	Pleural Culture For BK		Pleural		60day	60day	24 hrs at 2-8°c	24 hrs at 2-8°c		
Blood bank	Panel reactive Ab		S	1	8day	8day	at 2-8°c	at 2-8°c	Hemolysis	
Urine Analysis	Phosphorus	photometric	U,S	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	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
Immunology	Parietal cell	IFA	S	0.5	7day	7day	5days at 2-8°c , 3 months at -20°c	at 2-8°c, at -20°c		
Specific Biochemistry	Pro BNP	ECL	S	1	10day	10day	6 days at 2-8°c, 3 months at -20°c	at 2-8°c, at -20°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	Hemolysis	Be separated quickly. Sample collecting with cold tube & syringe
Hormone	Pemphigus Ab	IFA	S	0.5	10day	10day	5 days at 2-8°c, 3 months at -20°	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		



Sector	Test	Assay method	Sample tyPE	S .vo I.(ml)	زمان انجام	مدت جوابدهی	storage	Transport	reject	others
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		
Genetics	QF PCR(Aminosantez)	QF PCR	PE	20	5day	5day	Fast sending at 2-8 °c	at 2-8 °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		
Hormone	Renin	Elisa	PE	1.5	9day	9day	4 hrs. at RT, for longer time Rapidly store at -20 °c	at -20°c	Hemolysis, Icteric, Lipemic Incorrect anticoagulan	Avoid freeze / thaw cycles samples must be done at the usual temperature (15-25 °c) , and centrifuged at room temperature and must be frozen immeidiatell
Urine Biochemistry	Random Urine Phoshorus	photometric	U	10	Daily	next day	2days at RT, PH:5	at 2-8°c, at -20°c		
Immunology	Rast Test (Mix allergy panel )	Immunobolot	S	1	7day	7day				
Molecular diagnosis	Rubella PCR	PCR	Sput.,tissue, BF		7day	7day <b>64 : 16V</b>	1 week at 2-8°c for longer time at -20°			



Sector	Test	Assay method	Sample tyPE	S .vo I.(ml)	زمان انجام	مدت جوابدهی	storage	Transport	reject	others
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	
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	
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	Avoid repeated freeze / thaw cycles
Genetics	Sex-determination	NGS	WB	10	10day	10day	2days at 2-8°c	at' 2-8°c	Hemolysis	
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		Avoid repeated freeze / thaw cycles Patient's age and sex.
Hormone	S.H.B.G	ECL	S	0.5	Tue	1day	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
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	Incorrect	
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	Hemolysis	
Biochemistry	Selenium	Atomic	S	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	



Sector	Test	Assay method	Sample tyPE	S .vo I.(ml)	زمان انجام	مدت جوابدهی	storage	Transport	reject	others
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	frozen sample	
Microbiology	Sputum Direct Smear (BK)		Sputum		8day	8day	7 days at 2-8°c	24 hrs at 2-8°c		
Microbiology	Semen Culture & Sensitivity	Aerobic	Sputum	1	8day	8day	2 hrs at RT 1days at 2-8°c,	at 2-8°c		
Microbiology	Sputum Direct Smear.		Sputum		3day	3day	24 hrs at 4°c	24 hrs at RT		
Microbiology	Sputum Culture & Sensitivity		Sputum		8day	8day	24 hrs at 4°c	24 hrs at RT		
Microbiology	Synovial Culture & Sensitivity		Synovial		8day	8day	6hrs at 37°c 3days at 4°c	in the fastest time possible		
Hormone	Sirolimus	CLIA	WB	2	5day	5day	7 days at 2-8°c, 2 months at -20 °c	at 2-8°c, at -20°c	Hemolysis, Clotting, Frozen, Incorrect, anticoagulant	



Sector	Test	Assay method	Sample tyPE	S .vo I.(ml)	زمان انجام	مدت جوابدهی	storage	Transport	reject	others
parasitology	Stool elastase	Elisa	Stool	3	9day	9day	2 days at RT, 7 days at 2-8°c, 6 months at -20 °c	at RT, at 2-8°c, at -20°c		
Parasitology	Stool Examination	بررسی لام به صورت مستقیم	Stool	1	2day	2day		2-8 hrs at RT	frozen sample, Specimens containing barium,oil or urine	
parasitology	Scotch TEST	بررسی لام زیر میکروسکوپ			Daily	next day				
Stone Analysis	Stone Analysis		Urinary tract Stone		2day	2day	at RT	at RT		
Body Fluid Examination	Synovial fluid	Aerobic & Ana	Synovial Fluid	2	2day	2day	the same time must be tested	at RT		
Parasitology	Stool Trypsin Activity	Chemical	Stool	0.5	8day	8day	7 days at -20°c	at -20°c	specimen scontaining barium	
Microbiology	Sputum Culture For BK	Aerobic	Sputum	1	60day	60day	2hrs at RT, 1 day at 2-8 °c	at 2-8°c		
Microbiology	Supra Pabic Urine culture & Sensitivity		U		3day	3day	fast sending	at RT fast sending		



Sector	Test	Assay method	Sample tyPE	S .vo I.(ml)	زمان انجام	مدت جوابدهی	storage	Transport	reject	others
Immunology	Serotonin	Hplc	S , U 24h (Hcl)	1	35day	35day	2 months at -20°c	at -20°c >-20°c	Hemolysis, Icteric, Lipemic	
Immunology	SARS-COV-2Ab (Covid-19) IgM SARS-COV-2Ab (Covid-19) IgG	Elisa	PE,PH,PC	0.5	6day	6day	2days at 2-8 °c,			
Immunology	Specific IgE(Respiratory)	Immunobolot	S	1	7day	7day	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
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.		Mixing sample with water, urine	
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		
Biochemistry	Triglyceride	photometric	PH,PE ,S	0.5	Daily	next day	2 days at15-25°c, 7 days at 2-8°c, 1 year at -20°c	at 2-8°c, at -20°c	Hemolysis	Avoid repeated freeze / thaw cycles
Hormone	Troponine I	ECL	S.	0.5	5day	5day	2 days at 2-8°c for longer time at -20°c	at 2-8°c, at -20°c	Hemolysis, Icteric, Lipemic	



Sector	Test	Assay method	Sample tyPE	S .vo I.(ml)	زمان انجام	مدت جوابدهی	storage	Transport	reject	others
Biochemistry	Total Protein	photometric	PH,PE ,S	0.5	Daily	next day	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
Biochemistry	Total Lipid	Colorimetry	S	1	Daily	2 day	5 days at 2-8 °c for longer time at -20°c	at 2-8°c, at -20°c	frozen sample	Fasting
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, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
Microbiology	Tuberculin Test(PPD)	Skin Test			4day	4day				
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	Hemolysis, Icteric, Lipemic	Avoid freez/ thaw cycles
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	Hemolysis, Icteric, Lipemic	Avoid freeze / thaw cycles
Immunology	Toxo(IgG)Avidity	ECL	S	0.5	10day	10day	l week at 2-8°c for longer time at -20°	at 2-8°c, at -20°c	Hemolysis, Icteric, Lipemic	Avoid repeated freez/ thaw cycles Avoid using iron supplement
Therapeutic drug monitoring	Topiramate	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	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, Icteric, Lipemic	Avoid freeze / thaw cycles



Sector	Test	Assay method	Sample tyPE	S .vo I.(ml)	زمان انجام	مدت جوابدهی	storage	Transport	reject	others
Microbiology	Throat Culture for BK	Microb Culture	S		Daily	3day	The same time must be analysis	at RT		Avoid using antibioti
Hormone	Thyrogolobulin	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	Hemolysis, Icteric, Lipemic	Fasting is recommended
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	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	Hemolysis, Icteric, Lipemic	
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	Hemolysis, Icteric, Lipemic	
Microbiology	Throat Direct Smear		Throat Swap		2day	2day	24 hrs at RT,	24 hrs at RT		
Microbiology	Throat Culture & Sensitivity	Aerobic Culture	Throat Swab	3 Swabs	8day	8day	Must be tested the same time	at RT		
Hormone	TNF.Alpha	Elisa	S, PE, PH	1	12day	12day	6 months at -20°c CRITICAL FROZEN	at -20°c	Gross: Hemolysis , Icteric, Lipemic	Avoid freeze / thaw cycles
Microbiology	Tracheal Culture & Sensitivity		Tracheal		8day	8day	at RT fast sending	at RT fast sending		



Sector	Test	Assay method	Sample tyPE	S .vo I.(ml)	زمان انجام	مدت جوابدهی	storage	Transport	reject	others
Microbiology	Tracheal Direct Smear		Tracheal		2day	2day	at RT fast sending	at RT fast sending		
Microbiology	Throat Direct Smear For BK		Throat Swap		8day	8day	24 hrs at RT	24 hrs at RT		
Pathology	Tissue	process, sectioning and staining,slide preparation	Tissue		7day	7day	Unlimited after fixation,Formalin	Formalin, coatainer RT		
Hematology	Thrombin time	clotting	РС	2	5day	5day	6 hrs (keep at 2-8°c until test it)	at -20°c, at -70°c		Serum or plasma must be seperated as soon as possible.
Metabolic disorders	Tyrosine	HPLC	Р	1	Daily	2day	2 weeks at -20°c	at -20°c	Hemolysis	Fasting 3-6 hours Avoid freez/ thaw cycles Be separated quickl
Parasitology	Tourch	ECL	S	4	14day	14day	CRITICAL FROZEN	at 2-8°c, at -20°c		
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	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
Urine Analysis	Urine analysis	Direct smear	U	10	Daily	1 day	The same day must be analysis	at RT		
Biochemistry	Urine Protein	Photometric	U	10	Daily	next day	2 days at RT, 7 Days at 2-8°c, 1month -20°c			



Sector	Test	Assay method	Sample tyPE	S .vo I.(ml)	زمان انجام	مدت جوابدهی	storage	Transport	reject	others
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		
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	
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		
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		Avoid repeated freeze / thaw cycles
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 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		
Biochemistry	Urine Protein Electrophores	Electrophoresis	Urine(24h) بدون نگهدارنده	5	13day	13day	7 days at 2-8 °c	at -20°c		
Urine biochemistry	Urine Epinephrin	HPLC	U	5	10day	10day	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



Sector	Test	Assay method	Sample tyPE	S .vo I.(ml)	زمان انجام	مدت جوابدهی	storage	Transport	reject	others
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 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		
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 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	Hemolysis, Icteric, Lipemic	
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		Avoid using coffe,tea,chcolate,Caca o,banana,
Metabolic disorders	Urine Reducing Substance	Chemical	U	10	6day	6day	1 day at 2-8 °c, 1 month 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		
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



Sector	Test	Assay method	Sample tyPE	S .vo I.(ml)	زمان انجام	مدت جوابدهی	storage	Transport	reject	others
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 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 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		
Microbiology	Urine culture & Sensitivity		U	10	3day	3day	24 hrs at 4°c	2 hrs at 4°c		
Microbiology	Urine Direct for BK		U	10	8day	8day	24 hrs at 4°c	24 hrs at 4°c		
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 Hormone	Urine Norepinephrine	HPLC	PE, U	1,10	10day	10day	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



Sector	Test	Assay method	Sample tyPE	S .vo I.(ml)	زمان انجام	مدت جوابدهی	storage	Transport	reject	others
Hormone	Urine Normetanephrine	Elisa	U	5	10day	10day	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
Urine Biochemistry	Urine Metanephrine	Elisa	U	5	10day	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	5day	5day	7 days at 2-8°c, 2 months at -20°c	at 2-8°c, at -20°c		
Microbiology	Urine Sediment culture & Sensitivit		U	10	3day	3day	24 hrs at 4°c	2 hrs at 4°c		
Microbiology	Urine Sediment		U	10	2day	2day	24 hrs at 4°c	2 hrs at 4°c		
Hormone	Urine Organic Acid	G.C- MS	U	10	21day	21day	7 days at 2-8°c, 3 months at -20°c	at 2-8°c, at -20°c		
Specific Biochemistry	Vitamin E	HPLC	S	1	7day	7day	2 weeks at -20 °c	at -20°c	Hemolysis, Icteric	Avoid freez/ thaw cycles protect the light Be separated in refrigerated centrifuge Fasting 3-6 hours



Sector	Test	Assay method	Sample tyPE	S .vo I.(ml)	زمان انجام	مدت جوابدهی	storage	Transport	reject	others
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	Hemolysis,Icteric	Avoid repeated freeze / thaw cycles
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	Hemolysis	
Immunology	VZV Ab (IgG)	Elisa	S	0.5	7day	7day	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	5day	5day	2 days at 2-8°c, for longer time at -20°c	at 2-8°c, at -20°c	Hemolysis, Icteric, Lipemic	
Specific Biochemistry	Vitamin A	HPLC	S	1	9day	9day	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
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		



Sector	Test	Assay method	Sample tyPE	S .vo I.(ml)	زمان انجام	مدت جوابدهی	storage	Transport	reject	others
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
Microbiology	Vaginal Direct Smear		Vaginal dis		2day	2day	24 hrs at RT	24 hrs at RT		
Microbiology	Vaginal Culture & Sensitivity		Vaginal dis		8day	8day	24 hrs at RT	24 hrs at RT		
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
Immunology	Von Willebrand Factor	Coagulation	РС	3	13day	13day	6 hrs at RT 14day at -20°c	at -20°c at RT		
Hormone	Vitamin B6	Elisa	PE	3	Every 28day one	2next day	3 weeks at 2-8°c for longer time at -20°c (dark place)	2-8°c, -20°c		



Sector	Test	Assay method	Sample tyPE	S .vo I.(ml)	زمان انجام	مدت جوابدهی	storage	Transport	reject	others
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		
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	Hemolysis, Icteric, Lipemic	
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		
Microbiology	Wound Direct Smear		Wet Swap		2day	2day	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		
Microbiology	Wound Discharge (D.S)		Wet Swap		Daily	next day	24 hrs at RT	24 hrs at RT		
Microbiology	Wound Culture (Mycobacteria BK)	Aerobic & Ana	Wound dis		80day	80day	the same time must be tested	24 hrs at RT		
Immunology	WBC Panel	Cytotoxicity	WB(E or H)	10	Even days	2day	12 hrs at 2-8°c	at 2-8°c		
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, anticoagulantI	



Sector	Test	Assay method	Sample tyPE	S .vo I.(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	Hemolysis,clotting, frozen,incorrect, anticoagulantI	