

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
1	3 α -diol	S	1	Elisa	10 days	Next day	1 day at 2-8°C, 2 months at -20°C	at 2-8°C, at -20°C	Not recommended	Gross hemolysis	avoid repeated freeze/thaw cycles
2	5-Hydroxyindoleacetic acid (SHIAA)	U (24h & R) (see table1)	10	Elisa	Tue	Next day	7 days at 2-8°C, 14 days at -20°C (dark place)	at 2-8°C, at -20°C	<p>Patient Prep: Patients should abstain, if possible, from medications, OTC drugs, and herbal remedies for at least 72 hours prior to the test. Foods rich in serotonin (avocados, bananas, eggplant, pine-apple, plums, tomatoes, walnuts), chocolate, mango, date, grape fruit, melon, watermelon, kiwi, nuts, plantain and medications that may affect metabolism of serotonin, Imipramine, isoniazid, methyldopa, etc must be avoided at least 72 hours before and during collection of urine.</p>	<p>Increased: Acetaminophen, acetanilide, caffeine, coumaric acid, diazepam (Valium®), ephedrine, fluorouracil, glycerol guaiacolate (Guaiifenesin), melphalan (Alkeran®), mephensin, methamphetamine (Desoxyn), methocarbamol (Robaxin®), naproxen, nicotine, phenacetin, phenmetrazine, phenobarbital, phentolamine, rauwolfia, reserpine. Decreased: Aspirin, chlorpromazine (Thorazine), corticotropin, dihydroxyphenylacetic acid, ethanol, gentisic acid, homogentisic acid, hydrazine derivatives, imipramine (Tofranil®), isocarboxazid (Marplan), keto acids, levodopa, MAO inhibitors, methenamine, methyldopa (Aldomet®), perchlorperazine, phenothiazines (Compazine®), promazine, promethazine (Mepergan®).</p>	

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
3	14-3-3 protein	CSF	1	Elisa	25 days	Same day	5 days at 2-8°C, 1 month at -20°C	at 2-8°C, at -20°C	Not recommended	Gross hemolysis	
4	17 Ketosteroids	U(24h & R) (see table1) pH: 2-4	10	Chemical, Column chrom.	By contact		7 days at 2-8°C, 1 month at -20°C	at 2-8°C, at -20°C	A large number of substances may interfere with this test. Decreases may be caused by: carbama-zepine, cephaloridine, cephalothin, chlormerodrin, digoxin, glucose, metyrapone, promazine, propoxyphene, reserpine, and others. Increases may be caused by acetone, acetophenide, ascorbic acid, chloramphenicol, chlorothiazide, chlorpromazine, cloxacillin, dexamethasone, erythromycin, ethinamate, etryptamine, methicillin, methyprylon, morphine, oleandomycin, oxacillin, penicillin, phenaglycodol, phenazopyridine, phenothiazine, piperidine, quinidine, secobarbital, spironolactone, and others.		
5	17 OH progesterone	S, PH	0.5	Elisa	Daily	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Avoid using medication	Hemolysis, Icteric, Lipemic	

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
6	2ME	S, BF	0.4	Tube aggl.	Daily	2 days later	7 days at 2-8°C, for longer time at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	
7	ABG (Arterial blood gas)	WB (H) (Arterial blood)	1	Optical fluorescence	1 hr after receiving the sample	Same day	30 min on ice	On ice	Not recommended	Incorrect anticoagulant warm sample	
8	ACE	S, BF	0.5	Enzymatic	daily	Same day	5 days at 2-8°C, 2 months at -20°C	at 2-8°C, at -20°C	Notice using of captopril, enalapril, ... that affect ACE level	Hemolysis, Icteric, Lipemic	Be separated quickly
9	Acetaminophen	S	1	HPLC	3 days	Same day	7 days at 2-8°C, 2 months at -20°C	at 2-8°C, at -20°C	Not recommended		
10	Acetylcholine receptor Ab	S	0.5	Elisa	Sat, Tue	Next day	7 days at 2-8°C, for longer time at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	Be separated quickly. Avoid repeated freeze/thaw cycles
11	Acid phosphatase (prostatic)	S (Add 30 µl acetic acid 1.5 mol/L to 1 ml of serum and mix)	0.5	Photometric	Daily	Next day	5 hrs. at RT, 7 days at 2-8°C	at 2-8°C	Fasting is recommended. Abstain using of cefotaxime few days prior to collection. Avoid prostate massage & rectal exam 2 days prior to collection	Hemolysis, Icteric, Lipemic	Be separated quickly. Avoid repeated freeze/thaw cycles

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
12	Acid phosphatase (total)	S (Added 30 ul acetic acid 1.5 mol/L to 1 ml of serum and mix)	0.5	Photometric	Daily	Next day	5 hrs. at RT, 5 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Fasting is recommended. Abstain using of cefotaxime few days prior to collection. Avoid prostate massage & rectal exam 2 days prior to collection	Hemolysis, Icteric, Lipemic	Be separated quickly. Avoid repeated freeze/thaw cycles
13	ACTH	PE	1	CLIA	Odd days	Next day	14 days at -20°C CRITICAL FROZEN	at -20°C	Fasting. Avoid using of tourniquet.	Hemolysis	Be separated quickly and transport on ice. Refrigerated centrifuge must be used.
14	Acylcarnitine profile	DBS (see sop 1)	5 spots on paper	MS/MS	30 days	Same day	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		
15	ADA	S, PE, CSF, BF	0.5	Enzymatic	Daily	Same day	5 days at 2-8°C, 1 month at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis	
16	Addis count	U (R & 12 hrs.)	20	Microscopic count	Daily	Next day	Must be done the same day	2 hrs. at 2-8°C	Not recommended		
17	Adenovirus PCR	Plasma (EDTA), Serum, Throat, Urine, Nasopharyngeal or eye swabs.	1ml, 2 swabs	Qualitative PCR	5 days	Same day	7 days at 2-8°C, 1 month at -20°C	at 2-8°C, at -20°C	Not recommended	Incorrect anticoagulant (heparin), Calcium alginate swabs, Hemolysis	

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
18	ADH (antidiuretic hormone)	PE	5	RIA	25 days	Same day	1 month at -20°C CRITICAL FROZEN	at -20°C	Not recommended	Gross hemolysis	
19	Adiponectin	S	1	Elisa	10 days	Same day	5 days at 2-8°C, 1 month at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis	
20	Adrenaline (Epinephrine)	PE, U (24h & R) (see table 1)	1, 10	S: Elisa, U: HPLC	PE: 10 days, U: Tue	Next day	PE: 1 month at -20°C U: 7 days at 2-8°C, 1 month at -20°C PE: CRITICAL FROZEN	PE: at -20°C U: at 2-8°C, at -20°C	Abstain from emotional and mental stress, medications for 3 days prior to collection.	Gross hemolysis	
21	AH50	S	1	Hemolysis	20 days	Same day	2 hrs at RT, 14 days at -20°C CRITICAL FROZEN	at -20°C	Not recommended	Hemolysis	avoid repeated freeze / thaw cycles
22	Albumin	S, PE, PH, BF, U (R & 24h) (see table 1)	0.5	Photometric	CSF: Even days / others: Daily	Next day / Same day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic gross	avoid repeated freeze / thaw cycles
23	Albumin index	S & CSF	1.0, 1.0	Photometric	2 days	Same day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic gross	avoid repeated freeze / thaw cycles
24	Aldolase	S, PH	0.5	Enzymatic	Daily	Next day	5 days at 2-8°C, 2 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis mild & gross, Icteric gross, Lipemic gross	Be separated quickly

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
25	Aldosterone	S, PE, U (R & 24h) (see table 1)	S/PE:0.4 U :10	Elisa	Odd days	Next day	3 days at 2-8°C, 1 month at -20°C	at 2-8°C, at -20°C	Abstain using of anti-blood pressure, diuretic,... 14 days prior to collection.	Hemolysis, Icteric, Lipemic	avoid repeated freeze / thaw cycles
26	Alkaline phosphatase	S, PH	0.2	Photometric	Daily	Same day	3 days at 2-8°C, 2 months at -20°C	at 2-8°C, at -20°C	Fasting , Notice use of hepatotoxic drugs	Hemolysis, Icteric, Lipemic	avoid repeated freeze / thaw cycles
27	Alkaline phosphatase isoenzyme	S, PH	0.2	Termal, Photometric	Daily	Next day	3 days at 2-8°C, 2 months at -20°C	at 2-8°C, at -20°C	Fasting , Notice use of hepatotoxic drugs	Hemolysis, Icteric, Lipemic	avoid repeated freeze / thaw cycles
28	Alpha 1 Anti Trypsin	S, PE	0.5	Enzymatic	Sun & Wed	Next day	7 days at 2-8°C, 2 months at -20°C	at 2-8°C, at -20°C	Fasting is recommended. Avoid using of cefotaxime prior to collection	Hemolysis, Icteric, Lipemic	
29	Alpha fetoprotein	S, PE, PH, Amniotic fluid, BF	0.5	CLIA	Daily	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, -20°C	Not recommended	Hemolysis	
30	Alfa glucosidase	DBS (see sop 1)	5 spots on paper	GC-MS	25 days	Same day	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		
31	Alprazolam	S	2	HPLC	3 days	Same day	7 days at 2-8°C , 2 months at -20°C	at 2-8°C, at -20°C	Not recommended		

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
32	AML 1/ETO PCR – AML - 2 (qualitative)	WB (E)	7	PCR	4 days	Same day	2 days at 2-8°C	at 2-8°C	Not recommended	Hemolysis, Frozen, Clotting, Incorrect anticoagulant	
33	AML 1/ETO PCR - AML- 2 (quantitative)	WB (E)	7	PCR	5 days	Same day	2 days at 2-8°C	at 2-8°C	Not recommended	Hemolysis, Frozen, Clotting, Incorrect anticoagulant	
34	Amino acids chromatography	PE (preferred), CSF, U (Random)	U: 3 Others: 1	HPLC	3 days	Same day	1 day at 2-8°C, 1 month at -20°C.	at 2-8°C, at -20°C	Fasting Urine must be fresh.	Hemolysis	Plasma sample be separated quickly
35	Ammonia	PE	0.5	Photometric	Daily	Same day	20 min at 4°C, 3 months at -20°C CRITICAL FROZEN	at -20°C	Avoid using of tourniquet	Hemolysis, Icteric, Lipemic	Refrigerated Centrifuge
36	Amylase	S, PE, PH, U (R & 24h) (see table 1)	0.5	Photometric	Daily	Same day	S & U: 7 days at 2-8°C, S: 1 month at -20°C, U:7 days at -20°C	at 2-8°C, at -20°C	Fasting	Hemolysis, Icteric, Lipemic	avoid repeated freeze / thaw cycles
37	ANA	S, PE, BF	0.5	IFA	Daily	2 days later	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Gross: Hemolysis, Icteric, Lipemic	
38	Anaerobic culture	Tissue, BF, Aspirates, ...	T:>1 gr BF&A:>1	Anaerobic	Daily	10 days later	The same time must be done.		Not recommended		

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
39	ANCA	S, PE, BF	0.5	IFA	Daily	2 days later	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Gross: Hemolysis, Icteric, Lipemic	
40	Androstenedione	S	0.5	Elisa	Even days	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Fasting. Sample collection 7 days before or after menstruation.	Hemolysis, Icteric, Lipemic	
41	Anti-Adrenal Cortex Ab (21 Hydroxylase Ab)	S	1	EIA	25 days	Same day	5 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Gross hemolysis	
42	Anti-Alpha Fodrin (IgA)	S	0.5	Elisa	7 days	Same day	5 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis	
43	Anti-Alpha Fodrin (IgG)	S	0.5	Elisa	7 days	Same day	5 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis	
44	Anti A titer (Isohemagglutinin)	S	0.5	Agglutination	Daily	Next day	7 days at 2-8°C, for longer time at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	
45	Anti B titer (Isohemagglutinin)	S	0.5	Agglutination	Daily	Next day	7 days at 2-8°C, for longer time at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
46	Anti B2 Glycoprotein Ab (IgG)	S, PE	0.5	Elisa	Sat , Tue	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	avoid repeated freeze / thaw cycles
47	Anti B2 Glycoprotein Ab (IgM)	S, PE	0.5	Elisa	Sat, Tue	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	avoid repeated freeze / thaw cycles
48	Anti C1q	S	0.5	Elisa (SMC)	7 days	Same day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Gross: Hemolysis, Lipemic	avoid repeated freeze / thaw cycles
49	Anti Cardiolipin Ab (IgG)	S	0.5	Elisa	Even days	Next day	5 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Lipemic	avoid repeated freeze / thaw cycles
50	Anti Cardiolipin Ab (IgM)	S	0.5	Elisa	Even days	Next day	5 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Lipemic	avoid repeated freeze / thaw cycles
51	Anti Centromere Ab (IgG)	S	0.5	Elisa	Thu	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	
52	Anti Desmoglein I	S	0.5	Elisa	Thu	Next day	5 days at 2-8°C, 14 days at -20°C	at 2-8°C at -20°C	Not recommended	Hemolysis, Lipemic	

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53	Anti Desmoglein III	S	0.5	Elisa	Thu	Next day	5 days at 2-8°C, 14 days at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Lipemic	
54	Anti DGP Ab (IgA) (Deaminated Gliadin Peptide)	S	0.5	Elisa	5 days	Same day	5 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Gross hemolysis	
55	Anti DGP Ab (IgG) (Deaminated Gliadin Peptide)	S	0.5	Elisa	5 days	Same day	5 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Gross hemolysis	
56	Anti DNA (ds)	S	0.5	Elisa	Daily	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	avoid repeated freeze / thaw cycles
57	Anti DNase B	S	1	Nephelometry	25 days	Same day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Gross: Hemolysis, Lipemic	
58	Anti Endomesial Ab (IgA)	S, PE	0.5	IFA	Even days	Next day	5 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended		
59	Anti Endomesial Ab (IgG)	S, PE	0.5	IFA	Even days	Next day	5 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended		

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
60	Anti-Factor H	S	0.5	Elisa	20 days	Same day	5 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Gross hemolysis	
61	Anti-GAD Ab	S	1	Elisa	Mon	Next day	5 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended		
62	Anti GBM Ab	S	0.5	IFA	Daily	Next day	5 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended		
63	Anti-Gliadin Ab (IgA)	S	0.5	Elisa	Sat & Tue	Next day	5 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Fasting is recommended.	Hemolysis, Icteric, Lipemic	
64	Anti-Gliadin Ab (IgG)	S	0.5	Elisa	Sat & Tue	Next day	5 days at 2-8°C for longer time at -20°C	at 2-8°C, at -20°C	Fasting is recommended.	Hemolysis, Icteric, Lipemic	
65	Anti-histone Ab	S	0.5	Elisa	Thu	Next day	5 days at 2-8°C, 6 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis	
66	Anti Hyaluronidase Ab	S	1	Nephelometry	25 days	Same day	7 days at 2-8°C, 2 months at -20°C	at 2-8°C, at -20°C	Not recommended	Gross: Hemolysis, Lipemic	

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67	Anti-Insulin Ab	S	0.5	Elisa	Tue	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	
68	Anti-Intrinsic Factor	S	0.5	Elisa	Sun	Next day	5 days at 2-8°C, 6 months at -20°C	at 2-8°C, at -20°C	Not recommended		avoid repeated freeze / thaw cycles
69	Anti-Islet cell Ab	S	0.5	IFA	7 days	Same day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	
70	Anti Leptospira Ab (IgG)	S	0.5	IFA	Thu	Next day	7 days at 2-8°C, 2 months at -20°C	at 2-8°C, at -20°C	Not recommended		
71	Anti Leptospira Ab (IgM)	S	0.5	IFA	Thu	Next day	7 days at 2-8°C, 2 months at -20°C	at 2-8°C, at -20°C	Not recommended		
72	Anti jo- 1 Ab	S	0.5	Elisa	Tue	Next day	7 days at 2-8°C for longer time at -20°C	at 2-8°C, at -20°C	Not recommended		
73	Anti MBP Ab (Anti myelin Basic Protein)	S	0.5	Elisa	30 days	Same day	5 days at 2-8°C, 2 months at -20°C	at 2-8°C, at -20°C	Not recommended	Gross hemolysis	

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
74	Anti-mitochondrial Ab (AMA)	S, PE	0.5	IFA	Daily	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Gross hemolysis	
75	Anti MOG Ab (Anti Myelin Oligodendrocyte Glycoprotein)	S	0.5	Elisa	Thu	Next day	5 days at 2-8°C, 1 month at -20°C	at 2-8°C, at -20°C	Not recommended	Gross: Hemolysis, Lipemic	
76	Anti Mullerian hormone (AMH)	S	0.5	Elisa	Daily	Next day	7 days at 2-8°C, 3 month at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	avoid repeated freeze / thaw cycles
77	Anti Musk Ab	S	0.5	Elisa	Tue	Next day	7 days at 2-8°C, 1 month at -20°C	at 2-8°C, at -20°C	Not recommended	Gross hemolysis	
78	Anti NMDA receptor (N-Methyl D-Aspartate)	S	0.5	IFA	30 days	Same day	5 days at 2-8°C, 2 months at ≤-20°C	at 2-8°C, at -20°C	Not recommended	Gross: hemolysis, Icteric	
79	Anti Neutrophil Ab	S	0.5	IFA	3 days	Same day	7 days at 2-8°C, 3 month at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	avoid repeated freeze / thaw cycles
80	Anti Parietal cell Ab	S	0.5	IFA	Daily	Next day	5 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended		

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81	Anti Pemphigus Ab (IgG)	S	0.5	IFA	Daily	Next day	5 days at 2-8°C, 3 months at -20°C	at 2-8°C, -20°C	Not recommended		
82	Anti Pemphigus Ab (IgG) (Neoplastic)	S	0.5	IFA	Daily	Next day	5 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended		
83	Anti phospholipase A2 receptor Ab	S	0.5	IFA	7 days	Same day	5 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Gross hemolysis	
84	Anti Phospholipid Ab (IgG)	S, PH	0.5	Elisa	Even days	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	
85	Anti Phospholipid Ab (IgM)	S, PH	0.5	Elisa	Even days	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	
86	Anti Platelet Ab	S	0.5	IFA	Sun	Next day	5 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended		
87	Anti PR3	S, PE	0.5	Elisa	Tue	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	

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88	Anti RNP Ab	S	0.5	Elisa	Tue	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	
89	Anti SCL- 70 Ab (Topoisomerase)	S, PE	0.5	Elisa	Wed	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	
90	Anti SLA (Soluble Liver Ag)	S	0.5	Elisa (SMC)	5 days	Same day	5 days at 2-8°C, 2 months at -20°C	at 2-8°C, at -20°C	Not recommended	Gross hemolysis	
91	Anti smith Ab	S	0.5	Elisa	Sat, Wed	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	
92	Anti smooth muscle Ab (ASMA)	S	0.5	IFA	Daily	Next day	7 days at 2-8°C, 3 months at -20°C.	at 2-8°C, at -20°C	Not recommended	Gross hemolysis	
93	Anti sperm Ab	S, Seminal plasma	0.5	IFA	Mon	Next day	5 days at 2-8°C, 2 months at -20°C	at 2-8°C, at -20°C	Not recommended		
94	Anti SSA (Ro) Ab	S	0.5	Elisa	Even days	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
95	Anti SSB (La) Ab	S	0.5	Elisa	Even days	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	
96	Anti Striated Muscle Ab	S	0.5	Elisa (SMC)	7 days	Same day	5 days at 2-8°C, 2 months at -20°C	at 2-8°C, at -20°C	Not recommended	Gross hemolysis	
97	Anti thrombin III	PC (platelet-poor plasma)	0.5	Photometric	Daily	Next day	5 days at 2-8°C, 1 month at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis	Avoid repeated freeze / thaw cycles Be separated quickly.
98	Anti Thyroglobulin Ab	S, PE	0.5	CLIA	Daily	Next day	7 days at 2-8°C, 1 month at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	
99	Anti TSH receptor	S	0.5	ECLIA	Thu	Next day	5 days at 2-8°C, 1 month at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	
100	Apo A1	S, PE, PH	0.4	Immunoturb	Sat & Tue	Same day	7 days at 2-8 °C, 1 month at -20°C	at 2-8°C, at -20°C	Fasting	Hemolysis, Icteric, Lipemic	avoid repeated freeze / thaw cycles
101	Apo B	S, PE, PH	0.4	Immunoturb	Sat & Tue	Same day	7 days at 2-8 °C, 1 month at -20°C	at 2-8°C, at -20°C	Fasting	Hemolysis, Icteric, Lipemic	avoid repeated freeze / thaw cycles

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
102	APTT	PC, (Platelet-poor plasma)	1	Coagulation	Daily	Same day	2 hrs. at RT, 14 days at -20°C CRITICAL FROZEN	at RT, at -20°C	Notice use of argatroban, heparin, heroine, ...	Hemolysis	Be separated quickly
103	Arsenic	WB (E), U (24h) (see table 1)	3, 10	AAS	25 days	Same day	7 days at 2-8 °c, 1 month at -20°C	at 2-8°C, at -20°C	Not recommended		
104	Arylsulfatase A	WB (H & dextran 6% in saline 9%) (Call with lab)	10	Chemical	3 days	Same day	Be performed quickly	Be performed quickly	Not recommended	Hemolysis, Clotting, Incorrect anticoagulant	
105	ASCA (IgG)	S	0.5	Elisa	Sun & Wed	Next day	7 day at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	centrifuge 1000 rpm 10 min
106	Ascitic fluid culture	Ascitic fluid	10	Aerobic & An.	Daily	4 & 8 days later	The same time must be done.	at 2-8°C	Avoid using antibiotic		
107	ASO	S	0.5	Immunoturb	Daily	Next day	5 days at 2-8°C, 2 month at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	
108	Aspergillus Ab (IgG)	S	0.5	Elisa	Wed	Next day	5 days at 2-8°C, 1 month at -20°C	at 2-8°C, at -20°C	Not recommended	Gross hemolysis	

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
109	Aspergillus Ab (IgM)	S	0.5	Elisa	Wed	Next day	5 days at 2-8°C, 2 month at -20°C	at 2-8°C, at -20°C	Not recommended	Gross hemolysis	
110	Aspirin (salicylate)	S	1	HPLC	Odd days	Same day	7 days at 2-8°C, 1 month at -20°C	at 2-8°C, at -20°C	Not recommended		
111	B2 Transferrin (CSF leakage)	S & nose or ear discharge	1 & 1	IEF & Immunofixation	2 days	Same day	4 hrs at RT, 7 days at 2-8°C, 2 month at -20°C	at 2-8°C	Avoid Freezing / Both samples are required for testing		
112	B2 microglobuline	S, PE, PH, CSF, U (R & 24h) (see table 1)	0.5	CLIA	Daily	Next day	3 days at 2-8°C, 3 months at -20°C (U:2 months & CSF 14 days at -20°)	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	avoid repeated freeze / thaw cycles
113	BCR/ABL (P190) PCR-ALL (qualitative)	WB (E), BMA(E)	7	PCR	4 days	Same day	2 days at 2-8°C	at 2-8°C	Not recommended	Hemolysis, Frozen, Clotting, Incorrect anticoagulant	
114	BCR/ABL (P190) PCR-ALL (quantitative)	WB (E), BMA(E)	7	PCR	5 days	Same day	2 days at 2-8°C	at 2-8°C	Not recommended	Hemolysis, Frozen, Clotting, Incorrect anticoagulant	
115	BCR/ABL (P210) PCR-CML (qualitative)	WB (E), BMA(E)	7	PCR	4 days	Same day	2 days at 2-8°C	at 2-8°C	Not recommended	Hemolysis, Frozen, Clotting, Incorrect anticoagulant	

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
116	BCR/ABL (P210) PCR-CML (quantitative)	WB (E), BMA (E)	7	PCR	5 days	Same day	2 days at 2-8°C	at 2-8°C	Not recommended	Hemolysis, Frozen, Clotting, Incorrect anticoagulant	
117	Bence jones protein	U (R & 24h) (see table 1)	10	Chemical	Daily	Next day	7 days at 2-8°C, 1 month at -20°C	at 2-8°C, -20°C	Not recommended		
118	Beta amyloid 1-42	CSF	1	Elisa	10 days	Same day	1 month at ≤ -20°C CRITICAL FROZEN	at -20°C	Not recommended	Gross hemolysis	
119	Beta crosslaps (CTX)	S, PE	0.5	ECLIA	10 days	Same day	8 hrs at 2-8°C, 14 days at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis	
120	Beta fibrinogen mutation	WB (E)	5	PCR	4 days	Same day	3 days at RT, 7 days at 2-8°C	at RT, at 2-8°C	Not recommended	Hemolysis, Frozen, Clotting, Incorrect anticoagulant	
121	Beta galactosidase	DBS (see sop1)	5 spots on paper	TMS	25 days	Same day	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		
122	BhCG	S, PE	0.5	CLIA, ECLIA	Daily	Same day	5 days at 2-8°C, 3 month at -20°C	at 2-8°C, at -20°C	Abstain using of chlorpromazine few days prior test (False positive)	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
123	Bilirubin	S, PE	0.5	Photometric	Daily	same day	5 days at 2-8°C, 3 months at -20°C (dark place)	at 2-8°C, at -20°C (dark place)	Notice to using of hepatotoxic drugs	Hemolysis	Avoid repeated freeze / thaw cycles
124	BK Virus PCR	WB (E), Plasma (EDTA), Serum, SF, Urine,...	2	Real time PCR	5 days	Same day	8 hrs RT, 3 day 2-8°C, 1 m < -20°C	at 2-8°C (preferred)	Not recommended	Incorrect anticoagulant (heparin), Formalized fluids, Clot sample, Hemolysis: gross	
125	BK virus viral load PCR	WB (E), Plasma (EDTA), Serum, CSF, Urine,...	2	Real time PCR	5 days	Same day	8 hrs RT, 3 day 2-8°C, 1 m < -20°C	at 2-8°C (preferred)	Not recommended	Incorrect anticoagulant (heparin), Formalized fluids, Clot sample, Hemolysis: gross	
126	Bleeding time			Duce	Daily	Same day			Avoid using of anticoagulant drugs		
127	Blood culture	WB	10% of culture medium volume	Aerobic	Daily	2 , 5 days later	The same time transported at 37°C	at RT <1hr	Avoid using antibiotic		
128	Blood group & RH	WB (E) & S	1, 0.5	Hemagglu	Daily	Same day	1 day at RT, 7 days at 2-8°C.	at RT, at 2-8°C	Not recommended	Hemolysis, Frozen, Clotting, Rouleaux formation	

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
129	Bone marrow aspiration culture	BM	1	Aerobic & Ana.	Daily	2 , 5 days later	The same time must be done	at 2-8°C	Avoid using antibiotic for 7 days before sample collection		
130	Bone marrow aspiration pathology	WB (E)	1		3 days	Same day	3 months after fixation	at RT	Not recommended		
131	Bone marrow biopsy culture	BMB		Aerobic & Ana.	Daily + 8 days	2 , 5 days later	The same time must be done.		Avoid using antibiotic for 7 days before sample collection		
132	Bone marrow biopsy pathology	BMB (10% formalin)	5 mm		5 days	Same day	1 month after fixation	at RT	Not recommended		
133	Bordetella pertussis Ab (IgA)	S	0.5	Elisa	7 days	Same day	5 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis	
134	Bordetella pertussis Ab (IgG)	S	0.5	Elisa	7 days	Same day	5 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis	
135	Borellia parasite	WB (E)	1	Giemsa stain	Daily	Same day	1 day at RT, 7 days at 2-8°C	at 2-8°C	Not recommended		

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
136	Borrelia Burgdorferi Ab (IgG)-(Lyme di.)	S, PE, PC, CSF	0.5	CLIA	Sat & Tue	Next day	7 days at 2-8°C , 3 months at -20°	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	
137	Borrelia Burgdorferi Ab (IgM)-(Lyme di.)	S, PE, PC, CSF	0.5	CLIA	Sat & Tue	Next day	7 days at 2-8°C , 3 months at -20°	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	
138	Borrelia Burgdorferi Ab -western blot	S, PE	0.5	Western Blot	By contact		7 days at 2-8°C , 3 months at -20°	at 2-8°C, at -20°C	Not recommended.	Hemolysis, Lipemic	
139	BRAF gene	Biopsy, Paraffin block	B: 5mm, Pb:5mm tissue	PCR	By contact		Biopsy (formalin fixed) 1 month at RT, Paraffin block with 5 mm tissue	at RT	Not recommended		
140	Breast dis. culture	Breast dis.	5	Aerobic & An	Daily	2, 5 days later	The same time must be tested		Avoid using antibiotic		
141	Bronchia dis. culture	Bronchiadis.	5	Aerobic	Daily + 8 days	2, 5 days later	The same time must be tested		Avoid using antibiotic		
142	Brucella Ab (IgG)	S, PE, PC, CSF	0.5	Elisa	Sun & Wed	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
143	Brucella Ab (IgM)	S, PE, PC, CSF	0.5	Elisa	Sun & Wed	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
144	Brucella culture	WB	5	Aerobic	Daily	3 weeks later	At 37°C.	at 37°C	Avoid using antibiotic for 7 days before sample collection		
145	Brucella PCR	WB (EDTA), CSF, BM, Lymph node aspiration, BF,...	1	Qualitative PCR	5 days	Same day	1 day RT, 2 days At 2-8°C, 1 m -20°C	at 2-8°C (preferred)	Not recommended	Incorrect anticoagulant (heparin), Clot sample, Hemolysis	
146	Buccal smear	Mouth epi. Cells	4 fixed slides	Papanicolaou staining	3 days	Same day	3 months after fixation		Not recommended		Fixation with ethanol
147	C1 Inhibitor (Concentration) (quantitative)	S	0.5	Immunoturb	Thu	Next day	2 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Fasting is recommended	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
148	C1 Inhibitor (Functional) (qualitative)	PC	1	SRID	10 days	Same day	2 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Fasting is recommended	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
149	C1q	S	0.5	SRID	10 days	Same day	7 days at 2-8°C, 1 month at -20°C	at 2-8°C, at -20°C	Not recommended	Gross: Hemolysis, Lipemic	Hemolysis, Icteric, Lipemic

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
150	C2	S	1	SRID	25 days	Same day	1 month at -20°C CRITICAL FROZEN	at -20°C	Not recommended		
151	C3	S, PE, PH	0.5	Immunoturb	Daily	Same day	7 days at 2-8°C, 1 month at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
152	C4	S, PE, PH	0.5	Immunoturb	Daily	Same day	7 days at 2-8°C, 1 month at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
153	CA 125	S, PE, PH, BF	0.5	CLIA or ECLIA	Daily	Next day	5 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
154	CA 15-3	S, PE, PH, BF	0.5	CLIA	Daily	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
155	CA 19-9	S, PE, PH, BF	0.5	CLIA	Daily	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
156	CA 242	S, PE, BF	0.5	Elisa	Sat	Next day	3 days at 2-8°C, for longer time at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
157	CA 72-4 (TAG-72)	S	0.5	Elisa	Mon	Next day	3 days at 2-8°C, for longer time at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis (Mild, Gross)	
158	Calcitonin	S	0.5	CLIA or Elisa	Sat & Tue	Next day	5 days at 2-8°C, for longer time at -20°C	at 2-8°C, at -20°C	Fasting is recommended		
159	Calcium	S, BF, U (R & 24h) (see table 1)	0.5	Photometric	Daily	Same day	8 days at 2-8°C, for longer time at -20°C	at 2-8°C, at -20°C	Fasting is recommended. Avoid using of tourniquet.	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
160	Calprotectin (stool)	Stool	1 gr	Elisa	Even days	Next day	6 days at 2-8°C	at 2-8°C	Not recommended		
161	Candida species PCR	BF, Tissue, pure isolated of candida sp.	Tissue: 3 mm, others 1.0 ml	PCR	5 days	Same day	BF: 7 days at 2-8°C, 14 days at -20°C Tissue: 14 days at -20°C, Isolated: 14 days at 2-8°C	BF: at 2-8°C, at -20°C Tissue: at -20°C Isolated: at 2-8°C	Not recommended		
162	Cannabis (THC) (quantity)	U (R)	2	Enzymatic	By contact		2 days at 2-8°C, 1 month at -20°C.	at 2-8°C, at -20°C	Not recommended		
163	Carbamazepine	S	0.5	HPLC	Daily	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended		

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
164	CBC	WB (E)	1	Flow cytometry	Daily	Same day	4 hrs at RT , 1 day at 2-8°C	at RT & at 2-8°C,	Not recommended	Hemolysis, Clotting, Frozen, Incorrect anticoagulant	
165	CBFB/MYH11 inv. (16)-AML-4	WB (E)	7	PCR	4 days	Same day	1 hr at RT, 2 days at 2-8°C	at 2-8°C	Not recommended	Hemolysis, Frozen, Clotting, Incorrect anticoagulant	
166	CCP Ab	S, PE, PH	0.5	Elisa	Daily	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	
167	CD markers	WB (E), WB (H), BF (see table 4)	0.5	Flow cytometry	Daily	3 days later	2 days at RT	at RT	Not recommended	Hemolysis, Frozen, Clotting Incorrect anticoagulant	
168	CEA	S, PE, PH, BF	0.5	CLIA	Daily	Next day	5 days at 2-8°C, 3 month at -20°C,	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	
169	Cell Free DNA (NIPT)	WB (special tube) (see sop 4)	20	NGS	12 days	Next day	5 days at RT	at RT	Not recommended		
170	Ceruloplasmin	S, PE, PH	0.5	Immunoturb	Daily	Next day	7 days at 2-8°C for longer time at -20°C.	at 2-8°C, at -20°C	Fasting is recommended	Hemolysis, Icteric, Lipemic	

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
177	Cholesterol	S, PE, PH	0.5	Photometric	Daily	Same day	24 hrs. at RT, 7 days at 2-8°C, 3 month at -20°C,	at 2-8°C, at -20°C	Fasting is recommended.	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
178	Cholinesterase	S, PE, PH	0.5	Photometric	Daily	Next day	Serum: 7 day at 2-8°C, 3 months at -20°, WB : 3 days at 2-8°C.	Serum: at 2-8°C, at -20°C WB : at 2-8°C	Not recommended	Hemolysis, Lipemic	
179	Chromogranin A	S	1	Elisa	7 days	Same day	3 months at -20°C CRITICAL FROZEN	at -20°C	Not recommended	Gross hemolysis	
180	CIC (Circulating Immune Complex)	S	0.5	Immunoturb	Even days	Next day	2 day at 2-8°C, 1 month at 20°C	at 2-8°C, at -20°C	Fasting is recommended		
181	Citrate	U (24h & R) (see table 1) pH = 2	10	Enzyme Colorimetry	Daily	Next day	7 days at 2-8°C, 1 month at -20°	at 2-8°C, at -20°C	Not recommended		
182	Clonazepam	S	2	HPLC	Odd days	Same day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended		
183	Clostridium difficile toxins (A & B)	Stool	1gr	Elisa	4 days	Same day	2 hrs at RT, 3 days at 2-8°C 2 months at -20°C	at 2-8°C, at -20°C	Not recommended		

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
184	Clotting time	WB	1	Tube method	Must be tested the same time	Same day			Abstain using of anti-coagulant drugs for a few days		
185	CMV Ab (IgG)	S, PE, PH, PC, BF, CSF	0.5	CLIA	Daily	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
186	CMV Ab (IgG)-avidity	S	0.5	Elisa	Thu	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
187	CMV Ab (IgM)	S, PE, PH, PC, BF, CSF	0.5	CLIA	Daily	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
188	CMV Ag (pp65)	WB (E)	3	DIF	Daily	2 days later	6 hrs at RT	at RT	Not recommended	Hemolysis, Clotting, Incorrect anticoagulant	
189	CMV PCR	CSF, WB (EDTA), Tissue, Respiratory samples Amniotic fluid, Urine, Body fluids, Serum, PE, BM	Tissue 5 mm, others 1 ml Urine 10 ml	Qualitative PCR	3 days	Same day	WB : 8 hrs RT, 3 days at 2-8°C, 1 year at -20°C Others: 8 hrs RT, 3 days at 2-8°C, 3 months at -20°C	Tissue : Frozen Others : at 2-8°C (preferred)	Not recommended	Incorrect anticoagulant (heparin), Formalinized fluids, Tissue (formalin fixes), Calcium alginate tipped, wood and gel media swab, Hemolysis	

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
190	CMV PCR (quantitative)	WB (E)	2	Real time PCR	4 days	Same day	WB : 8 hrs RT, 3 days at 2-8°C, 1 year at -20°C	at 2-8°C, at -20°C	Not recommended	Incorrect anticoagulant (heparin), Hemolysis	
191	Cocaine	U (R)	1	Photometric	By contact		7 days at 2-8°C 1 month at -20°C	at 2-8°C, at -20°C	Not recommended		
192	Cold Agglutinin	S	0.5	Agglutination	Even days	Next day	7 days at 2-8°C , 1 month at -20°	at 2-8°C	Not recommended		
193	Consult & Block pathology	Block & Slide			4 days	Same day	Minimum 15 years after fixation		Not recommended		
194	Coomb Wright	S, BF, CSF	1	Agglutination	Daily	2 days later	2 day at 2-8°C, 7 days at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis	
195	Coombs (direct)	WB (E)	0.5	Hemagglutination	Daily	Same day	1 day at RT, 5 days at 2-8°C	at 2-8°C	Not recommended	Hemolysis, Clotting, Frozen	
196	Coombs(Indirect)	S	0.5	Hemagglutination	Daily	Next day	5 days at 2-8°C, 1 month at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis	

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
197	Copper	S, PH, BF U (R & 24h) (see table 1)	0.5,10	Photometric / Atomic abs.	Daily	Next day	7 days at 2-8°C , 3 months at -20°	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	
198	Cortisol	S, U (R & 24h) (see table 1)	0.5, 5	S: CLIA U: Elisa	Even days	Same day	7 days at 2-8°C, 3 months at -20°	at 2-8°C, at -20°C	Avoid using of spironolactone, quinacrine, ... Abstain stress, ...	Hemolysis, Icteric, Lipemic	Sampling time between 6-8 am.
199	C-peptide	S, PH	0.5	CLIA	S: Daily U: Even days	Next day	7 days at 2-8°C , 1 month at -20°C	at 2-8°C, at -20°C	Fasting	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
200	CPK	S, PH, BF	0.5	Photometric	Daily	Same day	7 days at 2-8°C , 1 month at -20°C (dark place)	at 2-8°C, at -20°C	Avoid heavy physical activity prior test.	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
201	CPK-MB	S, PH	0.5	Photometric	Daily	Same day	7 days at 2-8°C , 1 month at -20°C (dark place)	at 2-8°C, at -20°C	Avoid heavy physical activity prior test.	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
202	Creatine	U (R & 24h) (see table 1)	10	Photometric	2 days	Same day	7 days at 2-8°C , 3 months at -20°	at 2-8°C, at -20°C	Not recommended		
203	Creatinine	S, PE, PH, U (R & 24h) (see table 1)	0.5	Photometric	Daily	Same day	7 days at 2-8°C, 3 months at -20°	at 2-8°C, at -20°C	Avoid using of nephrotoxic drugs.	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
204	Creatinine clearance	S & U (R & 24h) (see table 1)	0.2, 3	Photometric	Daily	Same day	7 days at 2-8°C, 3 months at -20°	at 2-8°C, at -20°C	Avoid using of nephrotoxic drugs.	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
205	CRP	S, PH, BF	0.2	Immunoturb	Daily	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	
206	CRP high sensitive	S, PH, BF	0.2	Immunoturb	Daily	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
207	Cryoglobulin	S (See others column)	1	Percipitation	Daily	3 days later	4 days at RT 7 days at 2-8°C	at RT, at 2-8°C	Fasting	Hemolysis, Icteric, Lipemic, Frozen	Whole blood drawn in a pre-warmed (37°C) tube or syringe. Maintain collected blood at 37°C until clotting is complete. Separate serum from cells using a 37°C centrifuge, if possible.
208	Cryptococcus Neoformans Ag	CSF, S	1	Latex Agglutination	25 days	Same day	14 days at -20°C CRITICAL FROZEN	at -20°C	Not recommended		
209	Cryptococcus Neoformans PCR	BF, Tissue	Tissue: 5 mm BF: 1.0 ml	PCR	5 days	Same day	7 days at 2-8°C, 14 days at -20°C	at 2-8°C, at -20°C	Not recommended		

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
210	Cryptosporidium parvum	Stool	2.0 gr.	Direct smear, Ziehl neelsen stain	Daily	2 days later	1 day at RT, 2 days at 2-8°C	at RT, at 2-8°C	Not recommended		
211	CSF electrophoresis (OCB)	S & CSF	1.0, 1.0	IEF & Immunofixation	Odd days	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended		
212	CSF Culture	CSF	1	Aerobic & Anaerobic	Daily	2, 5, 8 days later	The same time must be tested	at RT	Abstain using antibiotic, second tube sampling is appropriate		
213	CSF IgG	CSF	0.2	Immunoturb	Even days	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended		
214	Cyclosporine	WB (E)	1	Photometry	Daily	Next day	5 days at 2-8°C, 1 month at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	
215	Cyfra 21	S, PE, PH	1	ECLIA	Thu	Next day	4 weeks at 2-8°C, 6 months at -20°C	at 2-8°C, at -20°C	Not recommended		
216	Cystatine C	S, PE	0.5	Immunoturbid	Even days	Next day	7 days at 2-8°C, 2 months at -20°	at 2-8°C, at -20°C	Not recommended		Avoid repeated freeze / thaw cycles

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
217	Cystine	U (R & 24h) (see table 1)	5	Chemical	Odd days	Next day	1 month at -20°C CRITICAL FROZEN	at -20°C	Avoid using of penicillin amine few days prior to collection		
218	Cytology	BF, U (ethanol 70%) or (formalin added) Formalin 10% (10% solution vol.) (see sop 3)	10	Papanicolaou staining	4 days	Same day	2 days at 2-8°C prepared slide, 3 months at RT.	Fluid: at 2-8°C Slide: at RT	Not recommended		
219	D-dimer	PC, PH (platelet-poor plasma)	1	Immunoturb	Daily	Same day	8 hrs at 2-8°C, 1 month at -20°C	at 2-8°C, at -20°C	Not recommended		Centrifuge at 1500 rpm 15 min, Avoid repeated freeze / thaw cycles
220	Delta aminolevulinic acid (D-ALA)	U (24h & R) (see table 1)	10	Chemical	30 days	Same day	4 days at 2-8°C, 1 month at -20°C, (dark place)	at 2-8°C, at -20°C	Not recommended		Increased ALA concentration is associated with exposure to alcohol, lead, and a variety of other agents. Massive elevation of ALA occurs in the acute porphyrias and hereditary tyrosinemia.
221	DHEA SO4	S, PE, PH	0.5	CLIA	Daily	Next day	7 days at 2-8°C, 2 month at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
222	Diazepam	S	2	HPLC	3 days	Same day	7 days at 2-8°C, 3 month at -20°C	at 2-8°C, at -20°C	Not recommended		

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
223	Dihydrotestosterone (DHT)	S	0.5	Elisa	Mon, Thu	Next day	1 day at 2-8°C, 1 month at -20°C	at 2-8°C, at -20°C	Not recommended		
224	Digoxin	S	0.5	Elisa	Daily	Next day	7 days at 2-8°C, 3 month at -20°C	at 2-8°C, at -20°C	Abstain using of neomycin, spironolactone ,... 7 days prior to collection	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
225	Diphtheria Ab (IgG)	S	0.5	Elisa	15 days	Same day	7 days at 2-8°C , for longer time at -20°	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
226	Direct immunofluorescence (DIF)	Biopsy in normal saline on ice		IFA	By contact	Same day	6 hrs. on ice, prepared slide, 3 months at -20°C	at -20°C	Not recommended		
227	DNA Fragmentation Index (SDFA)	Semen	1		3 days	Same day	1 hr at RT 14 days at -20°C	at RT, at -20°C	Not recommended		Avoid repeated freeze / thaw cycles
228	Dopamine	U (24h & R) (see table 1)	5	HPLC	Thu	Next day	7 days at 2-8°C , 1 month at -20°C	at 2-8°C, at -20°C	Not recommended	<u>Patient prep:</u> Abstain from medications for 72 hours before collection.	
229	DU factor	WB (E)	1	Hemagglut.	Daily	Same day	1 day at RT, 7 days at 2-8°C	at 2-8°C	Not recommended	Hemolysis, freeze, Clot Sample, Rouleaux Formation	

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
230	Dysmorphic RBC	U. RX1 or Ur. R x 3 samples interval half to one hour	10	Phase contrast microscope	Daily	Same day	Rapidly must be analyzed		Not recommended		
231	Ear dis. culture	Ear dis.		Aerobic	Daily	2, 5 days later	The same time must be tested	at RT	Avoid using antibiotic		
232	EBV Ab (IgG)	S, PE, PH, PC, BF, CSF	0.5	CLIA	Daily	Next day	7 days at 2-8°C, 3 months at -20°	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
233	EBV Ab (IgM)	S, PE, PH, PC, BF, CSF	0.5	CLIA	Daily	Next day	7 days at 2-8°C, 3 months at -20°	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
234	EBV PCR	CSF, Serum, WB (EDTA), Tissue, Plasma (EDTA), Saliva, Body fluids, BM	Tissue 5 mm, others 1 ml	Qualitative PCR	3 days	Same day	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 (preferred)	Not recommended	Incorrect anticoagulant (heparin), Hemolysis, Clot sample (WB), Formalinized sample	
235	EGFR gene (Epidermal Growth Factor Receptor)	Biopsy, Paraffin block	B: 5mm, Pb:5mm tissue	PCR	By contact		Biopsy (formalin fixed) 1 month at RT, Paraffin block with 5mm tissue	at RT	Not recommended		

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
236	Elastase stool	Stool	3.0 gr.	Elisa	Wed	Next day	2 days at RT, 7 days at 2-8°C, 6 months at -20°	at RT, at 2-8°C, at -20°C	Not recommended		
237	Entamoeba histolytica Ab (IgG)	S	0.5	Elisa	Mon	Next day	7 days at 2-8°C, 3 months at -20°	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
238	Enterovirus PCR	WB (E), Serum, Plasma (E), CSF, Respiratory samples, Stool, Swab sample, Body fluids, Urine	1	Qualitative PCR	5 days	Same day	1 hr RT, 3 days at 2-8°C, 3 months at <-20°C	2-8°C (preferred) or <-20°C	Not recommended	Incorrect anticoagulant (heparin), Formalinized fluids, Calcium alginate tipped, wood and gel media swab, Clot sample	
239	Eosinophil count	WB, Nasal dis., U (R), BF,...	1	Direct smear Giemsa staining	Daily	Next day	The same day must be tested	at RT	Not recommended		
240	Erythropoietin (EPO)	S (After sampling and before separating, sample must stored at 2-8°C, then seperated at refrigerated centrifuge	0.5	Elisa	6 days	Same day	1 day at 2-8°C, 3 months at-20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles. Separated at refrigerated centrifuge
241	ESR	WB (C)	2	Automation	Daily	Same day	4 hr at RT, 12 hrs. at 2-8°C	at RT, at 2-8°C	Not recommended	Hemolysis, Clotting	

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
242	Estradiol	S, PE	0.5	CLIA	Daily	Same day	5 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Fasting	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
243	Ethosuximide	S	0.5	HPLC	Daily	Next day	7 days at 2-8°C, 1 month at -20°C	at 2-8°C, at -20°C	Not recommended		
244	Eye dis. culture	Eye dis.		Aerobic	Daily	2, 5 days later	The same time must be tested	at RT	Avoid using antibiotic		
245	Factor II, V, VII, VIII, IX, X, XI, XII, XIII coagulation	PC, (Platelet-poor plasma)	1	Coagulation	Tue	Next day	2 hrs at RT, 14 days at -20°C, 6 months at -80°C	at -20°C	Not recommended	Hemolysis Incorrect anticoagulant	Avoid repeated freeze / thaw cycles Be separated quickly / Two times centrifugation is preferred.
246	Factor II (GA 20210) mutation	WB (E)	5	PCR	5 days	Same day	1 day at RT, 7 days at 2-8°C	at 2-8°C	Not recommended	Hemolysis, Frozen, Clotting, Incorrect anticoagulant	
247	Factor V Leiden (APCR)	PC, (Platelet-poor plasma)	1	Coagulation	Daily	Next day	2 hrs at RT, 14 days at -20°C, 6 months at -80°C	at -20°C	Not recommended	Hemolysis Incorrect anticoagulant	Avoid repeated freeze / thaw cycles Be separated quickly/Two times centrifugation is preferred.
248	Factor V mutation	WB (E)	5	PCR	5 days	Same day	3 days at RT, 7 days at 2-8°C	at RT, at 2-8°C	Not recommended	Hemolysis, Frozen, Clotting, Incorrect anticoagulant	

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
249	Factor VII mutation	WB (E)	5	PCR	5 days	Same day	3 days at RT, 7 days at 2-8°C	at RT, at 2-8°C	Not recommended	Hemolysis, Frozen, Clotting, Incorrect anticoagulant	
250	Factor XIII mutation	WB (E)	5	PCR	5 days	Same day	3 days at RT, 7 days at 2-8°C	at RT, at 2-8°C	Not recommended	Hemolysis, Frozen, Clotting, Incorrect anticoagulant	
251	Factor B	S	0.5	SRID	20 days	Same day	6 month at -20°C CRITICAL FROZEN	at -20°C	Not recommended	Hemolysis gross	Avoid repeated freeze / thaw cycles
252	Factor H	S	0.5	SRID	20 days	Same day	6 month at -20°C CRITICAL FROZEN	at -20°C	Not recommended	Hemolysis gross	Avoid repeated freeze / thaw cycles
253	Factor I (i)	S	0.5	SRID	20 days	Same day	6 month at -20°C CRITICAL FROZEN	at -20°C	Not recommended	Hemolysis gross	
254	Fasciola Ab (IgG)	S	0.5	Elisa	Mon	Next day	2 days at 2-8°C, 1 month at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
255	FDP(Fibrin/Fibrinogen Degradation split products)	PC (Platelet-poor plasma)	1	Latex Agglutination	Daily	Same day	4 hrs at RT, 1 month at -20°C CRITICAL FROZEN	at RT, at -20°C	Not recommended	Hemolysis, Increased RF titer, sample with fibrin	

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
256	Ferritin	S, PE	1	CLIA	Daily	Next day	1 day at RT, 2 days at 2-8°C, 3 months at -20°	at 2-8°C, at -20°C	avoid using of iron 7 days prior to collection	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
257	Fibrinogen	PC, (Platelet-poor plasma)	0.5	Coagulation	Daily	Same day	2 hrs at RT, 1 day at 2-8°C, 1 month at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	Be separated quickly
258	Fluid analysis	BF	1	Microscopic count	Daily	Same day	The same time must be tested	at RT <1 hr	Not recommended		
259	FNA (Fine Niddle Aspiration)	Asp. Fluid	1 ml fluid or 3 slides	Papanicolaou staining	4 days	Same day	Fluid 1 day at 2-8°C, after fixation 3 months for prepared slides at RT.	at RT	Not recommended		Slides should be prepared at the same time and dried in air and fixed
260	Folic acid	S, WB (E)	0.5, 1	ECLIA	Daily	Next day	4 hrs. at RT, 2 days at 2-8°C, 3 month at -20°C out of light, WB must be treated same time and stored at -20°C.	at 2-8°C, at -20°C	Fasting	S: Hemolysis, Icteric, Lipemic WB: Frozen, Clotting, Incorrect anticoagulant	Avoid repeated freeze / thaw cycles

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
261	Free BhCG	S	1	ECLIA	Daily	Next day	8 hrs. at RT, 7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis	Cold chain compliance during transport. Avoid repeated freeze / thaw cycles
262	Free cortisol	U (R & 24h) (see table 1)	5	Elisa	Even days	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended		
263	Free Estriol	S	0.5	Elisa	Daily	Next day	8 hrs. at RT, 7 days at 2-8°C, 1 month at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	
264	Free Fatty Acid (NEFA)	S	0.5	Immunoturb	5 days	Same day	7 days at 2-8°C, 3 month at -20°C	at 2-8°C, at -20°C	Fasting	Gross Hemolysis	
265	Free kappa	S, U (R)	0.5, 1	Immunoturb	Sat	Next day	7 days at 2-8°C, 1 month at -20°C	at 2-8°C, at -20°C	Not recommended		Avoid repeated freeze / thaw cycles
266	Free lambda	S, U (R)	0.5, 1.0	Immunoturb	Sat	Next day	7 days at 2-8°C, 1 month at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
267	Free PSA	S	0.5	CLIA	Daily	Next day	1 day at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
268	Free T3	S, PE, PH, PC	0.5	ECLIA	Daily	Next day	7 days at 2-8°C , 1 month at -20°C	at 2-8°C, at -20°C	Notice to drug interference such as Salicylates, ...	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
269	Free T4	S, PE, PH, PC	0.5	ECLIA	Daily	Next day	7 days at 2-8°C , 1 month at -20°C	at 2-8°C, at -20°C	Notice to drug interference such as Salicylates, ...	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
270	Free testosterone	S	0.5	Elisa	Daily	Next day	8 hrs. at RT, 7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	
271	Fructosamine	S	0.5	Chemical	4 days	Same day	2 days at RT, 7 days at 2-8°C, 1 month at -20°C	at 2-8°C, at -20°C	Not recommended	Gross Hemolysis	
272	FSH	S, PC	0.5	CLIA	Daily	Next day	3 days at 2-8°C, 3 months at -20°	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	
273	FTA Ab	S	0.5	CLIA	Sun & Wed	Next day	1 day at RT, 7 days at 2-8°C, 6 months at -20°	at 2-8°C, at -20°C	Fasting is recommended	Hemolysis, Icteric, Lipemic	
274	FTA Ab (abs)	S, PE, PH, CSF	0.5	IFA	Wed	Next day	1 day at RT, 7 days at 2-8°C, 6 months at -20°	at 2-8°C, at -20°C	Fasting is recommended	Hemolysis, Icteric, Lipemic	

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
275	Fungi Direct smear & culture	Skin, scalp, nail, hair, BF,..			Daily	1, 8, 15 days later	BF: The same day must be tested Others: 5 days at RT	at RT	Avoid using antibiotic & washing		
276	G6PD (quan. & qual.)	WB (E & H & ACD & C), DBS (see sop1)	WB: 1 ml, DBS: 5 spots on paper	Floures. & chem.	Daily	Next day	1 day at RT, 7 days at 2-8°C	at 2-8°C	Not recommended	Hemolysis, Frozen, Clotting, Incorrect anticoagulant	
277	Gabapentin	S	1	HPLC	4 days	Same day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended		
278	Galactomannan	S, BAL	0.5	Elisa	Wed	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended		
279	Galactose Blood	DBS (see sop1)	2 spots on Paper	Chemical	Thu	Next day	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		
280	Galactose 1PUT	DBS (see sop1)	4 spots on Paper	Chemical	30days	Same day	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		

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
281	Gamma GT	S, PE	0.5	Photometric	Daily	Same day	7 days at 2-8°C, 2 months at -20°C	at 2-8°C, at -20°C	Fasting is recommended. Avoid using OCP	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
282	Ganglioside Ab panel	S	1	Immunoblot	Wed	Next day	5 days at 2-8°C, 2 months at -20°C	at 2-8°C, at -20°C	Not recommended	Gross: Hemolysis, Lipemic	GM1, GM2, GM3, GD1a, GT1b, GQ
283	Gastrin	S, PE, PH	0.5	Elisa	Sun.	Next day	5 hrs at 2-8°C, 1 month at -20°C	at 2-8°C, at -20°C	Fasting. The patient is not exposed to radioactive material few days before test.	Hemolysis, Icteric	Avoid repeated freeze / thaw cycles. Refrigerated Centrifuge
284	GCT (glucose challenge test)	S	0.5	Photometric	Daily	Same day	5 days at 2-8°C, 6 months at -20°C	at 2-8°C, at -20°C	Fasting		1 fasting blood sample and 1 blood sample after 1 hr. ingestion 50 gr. oral glucose
285	Glucagon	PE	2	RIA	25 days	Same day	2 months at ≤ -20°C CRITICAL FROZEN	at -20°C	Fasting	Gross hemolysis Incorrect anticoagulant	
286	Glucose	S, PE, BF, U (R & 24h), ... (see table 1)	0.2	Photometric	Daily	Same day	5 days at 2-8°C, 6 months at -20°C	at 2-8°C, at -20°C	Fasting	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
287	Growth hormone	S	0.2	CLIA	Even days	Next day	2 days at 2-8°C, 2 month at -20°C	at 2-8°C, at -20°C	Fasting, Avoid using Clonidine	Hemolysis	

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
288	GTT(glucose tolerance test)	S	0.5	Photometric	Daily	Same day	5 days at 2-8°C, 6 months at -20°C	at 2-8°C, at -20°C	Fasting		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.
289	H. pylori (IgA)	S, PE	0.5	Elisa	Odd days	Next day	1 day at RT, 7 days at 2-8°C, 6 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
290	H. pylori (IgG)	S, PE	0.5	Elisa	Odd days	Next day	1 day at RT, 7 days at 2-8°C, 6 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
291	H. pylori (IgM)	S, PE	0.5	Elisa	Odd days	Next day	1 day at RT, 7 days at 2-8°C, 6 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
292	H. pylori culture	Tissue, biopsy		Aerobic	Daily	14 days later	The same time must be tested	Phosphate buffer, RT	Not recommended		Before sampling contact with lab
293	H. pylori PCR	Tissue, Gastric juice, Dental bacterial plaque, sputum, stool,...	Tissue 5 mm, stool 5 gr. Others 1ml	Qualitative PCR	By contact		6 hrs At RT, 1 day at 2-8°C, 1 month at -20°C	2-8°C (preferred)	Not recommended	Formalinized sample	

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
294	H. pylori stool Ag	Stool	1 gram	Elisa	Sat, Tue	Next day	2 days at 2-8°C for 1 month at -20°C	at 2-8°C, at -20°C	Not recommended		
295	Haemophilus influenzae PCR	Respiratory samples; Nasopharyngeal swab, BAL, Nasal Wash, Pleural Fluid,...	Fluids: 2 ml swab: 1	Qualitative PCR	4 days	Same day	5 days at 2-8°C, 2 months at -20°C	at 2-8°C, at -20°C	Not recommended		
296	Hams test	S & WB (E)	3, 2	Hemolysis	Daily	Next day	1 day at RT	at RT	Not recommended	Hemolysis, Icteric, Lipemic, Incorrect anticoagulant	
297	Haptoglobin	S, PE, PH	0.5	Photometric	Thu	Next day	1 day at RT, 7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Notice use of androgen & sulfasalazine drugs.	Hemolysis	
298	HAV Ab (IgM)	S	0.5	CLIA	Daily	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis	
299	HAV Ab (Total)	S	0.5	CLIA	Daily	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis	
300	Hb A2	WB (E)	2	Capillary elect.	2 days	Same day	7 days at 2-8°C	at 2-8°C	Not recommended	Hemolysis, Clotting, Frozen, Incorrect anticoagulant	

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
301	Hb electrophoresis	WB (E)	4	Capillary elect.	2 days	Same day	7 days at 2-8 ° c	at 2-8°C	Not recommended	Hemolysis, Clotting, Frozen, Incorrect anticoagulant	
302	Hb F	WB (E)	4	Capillary elect.	2 days	Same day	7 days at 2-8 ° c	at 2-8°C	Not recommended	Hemolysis, Clotting, Frozen, Incorrect anticoagulant	
303	HbA1c	WB (E or H)	1	Immunoturb	Daily	Same day	7 days at 2-8 ° c	at 2-8°C	Not recommended	Hemolysis, Clotting, Frozen, Incorrect anticoagulant	
304	HBc Ab (IgM)	S, PE, PH, PC	0.5	CLIA	Daily	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Lipemic	
305	HBc Ab (Total)	S, PE, PH, PC	0.5	CLIA	Daily	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Lipemic	
306	HBe Ab	S, PE, PH, PC	0.5	CLIA	Daily	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Lipemic	
307	HBe Ag	S, PE, PH, PC	0.5	CLIA	Daily	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Lipemic	

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
308	HBs Ab	S, PE, PH, PC	0.5	CLIA	Daily	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Lipemic	
309	HBs Ag(quantitative)	S, PE, PH	0.5	CLIA	Daily	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Lipemic	
310	HBV PCR (qualitative)	Plasma (EDTA or ACD), Serum	1	Qualitative PCR	3 days	Same day	3 days at RT, 1 week at 2-8°C, 6 weeks at <-20°C	2-8°C (preferred) or <-20°C	Not recommended	Incorrect anticoagulant (heparin), Hemolysis	
311	HBV viral load PCR	Plasma (EDTA or ACD), Serum	1	Real time PCR	5 days	Same day	3 days at RT, 1 week at 2-8°C, 6 weeks at <-20°C	at 2-8°C (preferred) at or <-20°C	Not recommended	Incorrect anticoagulant (heparin), Hemolysis	
312	HCV genotyping PCR	Plasma (EDTA or ACD), Serum	1	PCR	5 days	Same day	4 hrs at RT, 2 days at 2-8°C, 3 days at -20°C, 4 months at -70°C	at 2-8°C (preferred), at -20°C	Not recommended	Incorrect anticoagulant (heparin)	
313	HCV Ab	S	0.5	ECLIA	Daily	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	
314	HCV Ab (Riba / western Blot)	S, PE	0.5	Immunoblot	7 days	Same day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
315	HCV PCR (qualitative)	Plasma (EDTA or ACD), Serum	1	Qualitative PCR	4 days	Same day	4 hrs at RT, 2 days at 2-8°C, 3 days at -20°C, 4 months at -70°C	at 2-8°C (preferred), at -20°C	Not recommended	Incorrect anticoagulant (heparin), Hemolysis	
316	HCV viral load PCR	Plasma (EDTA or ACD), Serum	1	Real time PCR	5 days	Same day	4 hrs at RT, 2 days at 2-8°C, 3 days at -20°C, 4 months at -70°C	at 2-8°C (preferred), at -20°C	Not recommended	Incorrect anticoagulant (heparin), Hemolysis	
317	HDL cholesterol	S, PE, PH	0.5	Photometric	Daily	Same day	24 hrs. at RT, 7 days at 2-8°C, 3 months at -20°C (dark place)	at 2-8°C, at -20°C	Fasting. Avoid using clofibrate 7 days prior sample collection	Hemolysis, Icteric, Lipemic	
318	HDV Ab	S, PE, PH, BF	0.5	Elisa	Mon & Thu	Next day	7 days at 2-8°C, 3 months at -20 °C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
319	HDV PCR	Plasma (EDTA), Serum	1	Qualitative PCR	5 days	Same day	6 hrs at RT, 3 days at 2-8°C, 1 month at < -70°C	at 2-8°C (preferred), at -20°C	Not recommended	Incorrect anticoagulant (heparin), Hemolysis	
320	HE4	S, PE, PH	0.5	ECLIA	Even days	Next day	2 days at 2-8°C, 3 months at -20	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
321	Hematocrit	WB (E)	0.5	Cell counter	Daily	Same day	4 hrs at RT, 24 hrs. at 2-8°C	at 2-8°C	Not recommended	Hemolysis, Clotting, Frozen, Incorrect anticoagulant	
322	Hemosiderin	U (R) (Formalin added, 1/10 formalin 10%)	10	Slide staining	4 days	Same day	3 day at 2-8°C, prepared slide 3 months at RT	at 2-8°C	First-morning sample collection is preferred.		
323	Hemoglobin	WB (E)	0.5	Cell counter	Daily	Same day	4 hrs at RT, 24 hrs. at 2-8°C	at 2-8°C	Not recommended	Hemolysis, Clotting, Frozen, Incorrect anticoagulant	
324	HEV Ab	S	0.5	Elisa	Mon	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Gross: Hemolysis, Icteric	
325	HEV PCR	S, PE	1	Qualitative PCR	6 days	Same day	2 days at 2-8°C, 14 days at -20°C	at 2-8°C, at -20°C	Not recommended		
326	HIV Ab (1 & 2)	S, BF	0.5	ECLIA	Daily	Same day	5 days at 2-8°C, 2 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	
327	HIV Ab (Western Blot)	S, PE, PH	0.5	Western Blot	7 days	Same day	5 days at 2-8°C, 2 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
328	HIV P24 Ag	S, BF	0.5	Elisa	Daily	Next day	5 days at 2-8°C, 2 months at -20°C	at 2-8°C, at -20°C	Not recommended		
329	HIV PCR (qualitative)	Plasma (EDTA), Serum, CSF, Body fluid, Amniotic fluid,...	1	Qualitative PCR	4 days	Same day	1 day at RT, 6 days at 2-8°C, 6 weeks at <-20°C	at 2-8°C (preferred), at -20°C	Not recommended	Incorrect anticoagulant (heparin), Hemolysis	
330	HIV viral load PCR	Plasma (EDTA)	1	Real time PCR	5 days	Same day	1 day at RT, 6 days at 2-8°C, 6 weeks at <-20°C	at 2-8°C (preferred), at -20°C	Not recommended	Incorrect anticoagulant (heparin), Hemolysis	
331	HLA B27, B5, B51, B8, ...	WB (E)	3	PCR	3 days	Same day	5 days at 2-8°C	at 2-8°C	Not recommended	Hemolysis, Clotting, Frozen, Incorrect anticoagulant	
332	HLA class I (ABC) PCR	WB (E), Mouth wash solution	10	PCR	4 days	Same day	5 days at 2-8°C	at 2-8°C	Not recommended	Hemolysis, Clotting, Frozen, Incorrect anticoagulant	
333	HLA class II (DQ) PCR	WB (E), Mouth wash solution	10	PCR	4 days	Same day	5 days at 2-8°C	at 2-8°C	Not recommended	Hemolysis, Clotting, Frozen, Incorrect anticoagulant	
334	HLA class II (DR) RCR	WB (E), Mouth wash solution	10	PCR	4 days	Same day	5 days at 2-8°C	at 2-8°C	Not recommended	Hemolysis, Clotting, Frozen, Incorrect anticoagulant	

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
335	HLA DQ2 , DQ8	WB (E)	5	PCR	4 days	Same day	5 days at 2-8°C	at 2-8°C	Not recommended	Hemolysis, Clotting, Frozen, Incorrect anticoagulant	
336	HLA DR3 ,DR4 ,DR7	WB (E)	5	PCR	4 days	Same day	5 days at 2-8°C	at 2-8°C	Not recommended	Hemolysis, Clotting, Frozen, Incorrect anticoagulant	
337	Homocysteine	S, PE, PH, U (R)	0.5, 10	Enzyme Colorimetry U:Chemical	Odd days	Next day	5 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Fasting is recommended.	Hemolysis, Lipemic	
338	Homogentisic acid	U (24 hrs) (see table 1)	10	GC-MS	25 days	Same day	5 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended		
339	Homovanillic acid (HVA)	U (R & 24h) (see table 1)	20	HPLC	30 days	Same day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Patient prep: abstain using of medications 3 days prior collection.		
340	HPV typing PCR	Tissue, Cervical swab, Papule & Vesicle swab, Thin prep, E. prep, ...	Tissue: 5 mm Others: 2 ml	Microarray	5 days	Same day	2 weeks at RT, 3 weeks at 2-8°C, 3 months at -20°C	2-8°C (preferred)	Not recommended	Frozen , Formalin fixed tissue, Using anti-fungal vaginal cream & contraceptive jelly, Douching	
341	HSV Ab (IgG)	S, PE, PH, BF, CSF	0.5	CLIA	Daily	Next day	24 hrs. at RT, 7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric	Avoid repeated freeze / thaw cycles

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
342	HSV Ab (IgM)	S, PE, PH, BF, CSF	0.5	CLIA	Daily	Next day	24 hrs. at RT, 7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric	Avoid repeated freeze / thaw cycles
343	HSV PCR	CSF, Serum, WB (EDTA), Tissue, Respiratory sample, Plasma (E), Dermal & Genital (vaginal & cervix) Lesion or swab, Amniotic fluid, Thin prep, Ocular dis.	Tissue: 5 mm, others: 1 ml	Qualitative PCR	3 days	Same day	Tissue: 3 days at 2-8°C, 3 months at -20°C Others: 8 hrs. at RT, 3 days at 2-8°C, 3 months at -20°C	Tissue : Frozen Others : 2-8°C (preferred)	Not recommended	Incorrect anticoagulant (heparin), Formalinized fluids , Tissue (formalin fixes), Clot (WB) Calcium alginate tipped, wood and gel media swab	
344	HTLV Ab (1 & 2)	S, PE, PH	0.5	Elisa	Even days	Next day	Less than 5 days at 2-8°C for longer time at -20°C	at 2-8°C, at -20°C	Not recommended		
345	HTLV1 PCR	WB (EDTA), CSF,...	1	Qualitative PCR	5 days	Next day	2 days at RT, 2 weeks at 2-8°C	at 2-8°C (preferred)	Not recommended	Incorrect anticoagulant (heparin), Frozen sample, Clotting, Hemolysis	
346	Hydatid Ab (IgG)	S, PE	0.5	Elisa	Sun & Tue	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended		

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
347	IA2 Ab (Islet Antigen 2 Ab)	S	0.5	Elisa	10 days	Same day	5 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Gross: Hemolysis, Icteric, Lipemic	
348	IFOB	Stool	0.5 gr	Imm. Chemical	Daily	Next day	3 days at RT	at 2-8°C	Not recommended	Frozen	
349	IgA	S, PE, PH	0.5	Immunoturb	Daily	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
350	IgE	S, PE, PH	0.5	ECLIA	Daily	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
351	IgE specific (Food allergens)	S	1	Immunoblot	Even days	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
352	IgE specific (Respiratory allergens)	S	1	Immunoblot	Even days	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
353	IgE specific (Food & Respiratory allergens)	S	1	Immunoblot	Even days	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
354	IgG	S, PE, PH, CSF	0.5	Immunoturb	Daily	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
355	IgG index	S & CSF	1, 1	Immunoturb	Daily	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
356	IgG subclass 1, 2, 3, 4	S	1	Nephelometry	Even days	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Fasting is recommended	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
357	IgM	S, PE, PH	0.5	Immunoturb	Daily	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
358	IgF-1	S	0.5	CLIA	Daily	Next day	3 months at -20°C CRITICAL FROZEN	at -20°C	Fasting is recommended	Gross: Hemolysis, Lipemic	Avoid repeated freeze / thaw cycles
359	IgF-BP3	S	0.5	Elisa	5days	Same day	2 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Fasting is recommended	Gross: Hemolysis, Icteric	Avoid repeated freeze / thaw cycles
360	IGRA (Quantiferon)	Special tube (see sop 2)	5	Elisa	Sun	Next day	After sample treatment 28 days at 2-8°C or 3 months at -20°C	at 2-8°C,	Not recommended	Hemolysis gross	

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
361	IL-6	S, PE, CSF	0.5	ECLIA	10 days	Same day	2 months at -20°C CRITICAL FROZEN	at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	Be separated quickly
362	Immuno-electrophoresis	S, U (24h) (see table 1)	1, 10	Electrophoresis (Capillary elect.)	S: even days / Ur: Sun	Next day	S: 7 days at 2-8°C, 1 month at -20°C, U(24h): 5 days at 2-8°C, 1 month at -70°C	at 2-8°C, at -20°C U 24h: at 2-8°C	Not recommended		U24h: No preservative
363	Immuno-histochemistry (IHC)	Biopsy, block (see table 4)			7 days	Same day	Minimum 1 year after fixation (tissue) or block preparation.	at RT	Not recommended		
364	India ink	CSF	0.5	India ink stain	Daily	Next day	1 day at RT	at RT	Not recommended		
365	Inhibin A	S	1	Elisa	Daily	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	
366	Inhibin B	S	1	Elisa	Mon	Next day	2 days at 2-8°C, 1 month at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Lipemic	

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
367	Insulin	S, PE	0.5	CLIA	Daily	Next day	7 days at 2-8°C, 3 month at -20°C	at 2-8°C, at -20°C	Fasting is recommended. Abstain using of cimetidine, Alcohol, chlorpropamide, ... few days prior sample collection.	Hemolysis, Icteric, Lipemic	Be separated quickly
368	Iron	S, PH	0.5	Photometric	Daily	Same day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Fasting, abstain iron compound 7 days prior sample collection and OCP, sampling should be done preferably at 8-10 am.	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles. Patient's age and sex.
369	Isospora belli (Cystoisospora belli)	Stool	1.0 gr.	Direct smear, Ziehl neelsen stain	Daily	2 days later	1 day at RT, 2 days at 2-8°C	at RT, at 2-8°C	Not recommended		
370	Jak-2 mutation PCR	WB (E)	5	PCR	4 days	Same day	2 days at RT, 5 days at 2-8°C	at 2-8°C	Not recommended		
371	JC virus	Plasma (EDTA), Serum, CSF, Urine,...	1	Qualitative PCR	5 days	Same day	8 hrs at RT, 3 days at 2-8°C, 1 month at < -20°C	2-8°C (preferred)	Not recommended	Incorrect anticoagulant, Hemolysis	
372	Kala azar Ab (IgM)	S, BF	0.5	IFA	3 days	Same day	5 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended		

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
373	Kala azar Ab (Total)	S, BF	0.5	IFA	3 days	Same day	5 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended		
374	KRAS gene	Biopsy, Paraffin block	B: 5mm, Pb: 5mm tissue	PCR	By contact		Biopsy (formalin fixed) 1 month at RT, Paraffin block with 5mm tissue	at RT	Not recommended		
375	Lactate	PH, BF, CSF	1	Photometric	Daily	Same day	1 day at 2-8°C, 1 month at -20°C	at 2-8°C, at -20°C	Blood sampling without tourniquet. Abstain using of cefotaxim.	Hemolysis, Icteric, Lipemic	separated within 20 min.
376	Lactoferrin stool	Stool	2.0 gr.	Elisa	7 days	Same day	5 days at 2-8°C, 14 days at -20°C	at 2-8°C, at -20°C	Not recommended		Avoid repeated freeze / thaw cycles
377	Lamotrigin	S	0.5	HPLC	Daily	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended		
378	LDH	S, BF, CSF	0.5	Photometric	Daily	Same day	2 days at RT, 4 days at 2-8°C, 1 month at -20°C	at 2-8°C	Abstain using of codeine, clofibrate, prior to few days sample collection.	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
379	LDL cholesterol	S, PH	0.5	Photometric	Daily	Same day	5 days at 2-8°C, 1 month at -20°C (dark place)	at 2-8°C, at -20°C	Fasting	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
380	LE cell	WB (Defibrinate), S	10, 1.0		Daily	Next day	The same time must be tested		Not recommended		
381	Lead	WB (E)	2	Atomic abs.	Daily	Next day	5 days at RT, 7 days at 2-8°C, 1 month at -20°C	at 2-8°C, at -20°C	Not recommended	Incorrect anticoagulant, Clotting	
382	Legionella P. Ag	U (R)	10	EIA	25 days	Same day	4 days at 2-8°C, 1 month at -20°C	at 2-8°C, at -20°C	Not recommended		
383	Leishman body	Skin wound dis. BMA, BMB	2 slides	Slide staining (Geimsa)	Daily	Next day	Unlimited after fixation at RT.	at RT	Avoid using of tropical cream 3 days prior to collection.		
384	Leptin	S, PE	0.5	Elisa	Sat	Same day	2 days at 2-8°C, 1 month at -20°C	at 2-8°C, at -20°C	Fasting		
385	Leptospira Ab (IgG)	S, PH, CSF	0.5	IFA	Thu	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	
386	Leptospira Ab (IgM)	S, PH, CSF	0.5	IFA	Thu	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
387	Levetiracetam (Keppra)	S	1	HPLC	4 days	Same day	7 days at 2-8°C, 1 month at -20°C	at 2-8°C, at -20°C	Not recommended		
388	LH	S, PE	0.5	CLIA	Daily	Next day	3 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
389	Lipase	S, PH	0.5	Photometric	Daily	Next day	5 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Fasting		
390	Lipoprotein electrophoresis	S	0.5	Capillary elect. elect.	10 days	Same day	7 days at 2-8°C	at 2-8°C	Fasting	Hemolysis, Icteric, Lipemic, Frozen	
391	Listeria Ab (IgG)	S	0.2	IFA	Daily	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended		
392	Listeria Ab (IgM)	S	0.2	IFA	Daily	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended		
393	Lithium	S	1	ISE	Daily	Next day	1 day at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Specimens are commonly drawn approximately 12 hours after last dose of lithium taken. Notice using of diuretics, metronidazole, fluoxetine, drugs.	Hemolysis	

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
394	LKM Ab	S	0.5	IFA	Daily	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended		
395	Lpa (Lipoprotein A)	S, PE, PH	0.5	Immunoturb	Sat & Tue	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended		
396	Lupus anti coagulant (DRVVT & APTT-LA)	PC (platelet-poor plasma)	1	Coagulation	Even days	Same day	4 hrs. at RT or 2-8°C, 1 month at -20°C, 18 months at -70°C	at RT, at 2-8°C, at -20°C	Not recommended	Hemolysis, Incorrect anticoagulant. Icteric & lipemic for non-coagulation method.	Avoid repeated freeze / thaw cycles. Be separated quickly / Two times centrifugation is preferred.
397	Lysozyme	S, U (R), CSF	S, CSF: 1 U (R): 2	Nephelometry	25 days	Same day	5 days at 2-8°C, 2 months at -20°C	at 2-8°C, at -20°C	Not recommended	Gross: Hemolysis, Icteric, Lipemic	
398	M2-PK stool	Stool	2.0 gr.	Elisa	Sat	Next day	3 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended		Watery sample with normal values must be repeated an formed sample
399	Macroprolactin	S, PE, PH	1	CLIA	2 days	Same day	4 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Sample collecting 3 hrs after awake. Abstain sexual activity and stress 2 days before test. Avoid using estrogen, Insulin, a few days before test.	Hemolysis, Icteric, Lipemic	

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
400	Magnesium	S, PH, BF, U (R & 24h) (see table1)	0.5, 1	Photometric	Daily	Same day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
401	Malaria parasite	WB (E)	0.5	Slide staining (Geimsa)	Daily	Same day	Unlimited after fixation at RT	at RT	Fever presence	Hemolysis	
402	Manganese	WB (E), S, U (24h) (see table 1)	3, 10	AAS	25 days	Same day	7 days at 2-8°C, 2 months at -20°C	at 2-8°C, at -20°C	Not recommended		
403	MCV	WB (E)	1	Cell counter	Daily	Same day	4 hrs at RT, 24 hrs. at 2-8°C	at 2-8°C	Not recommended	Hemolysis, Icteric, Lipemic, Clotting, Frozen, Incorrect anticoagulant	
404	MCV Ab	S	0.5	Elisa	15 days	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
405	MDA	S	1	chemical	By contact		5 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis	
406	Measles Ab (IgG)	S, BF, CSF	0.5	Elisa	Thu	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
407	Measles Ab (IgM)	S, BF, CSF	0.5	Elisa	Thu	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
408	Measles PCR	Throat & nasopharynx & nasal swab, Cord blood (EDTA), Plasma (EDTA), Saliva, CSF, Amniotic fluid, Urine...	1 ml	Qualitative PCR	5 days	Same day	Swab : 3 days at 2-8°C, 1 week at <-20°C (with transport media) Others: 1 day at 2-8°C, 6 weeks at -20°C	Others: at 2-8°C (preferred) or < -20°C	Not recommended	Incorrect anticoagulant (heparin), Formalinized fluids, Calcium alginate tipped, wood and gel media swab, Hemolysis	
409	Melatonin	S	1.5	RIA	25 days		2 months at ≤ -20°C CRITICAL FROZEN	at ≤ -20°C	Not recommended	Gross: Hemolysis, Lipemic	
410	Mercury (Hg)	WB (E), U (R), (24h) (see table 1)	2	Atomic abs.	Thu	Next day	5 days at RT, 7 days at 2-8°C, 1 month at -20°C	at RT, at 2-8°C	Not recommended	Clotting, Incorrect anti - coagulant	
411	Metabolic Screen Neonate panel	DBS (see sop1)	5 spots on paper	MS/MS	30 days	Same day	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		

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
412	Metanephrines	U (24h & R) (see table 1)	5	Elisa	Even days	Next day	7 days at 2-8°C, 1 month at -20°C (dark place)	at 2-8°C, at -20°C	Abstain from emotional and mental stress, medications for 3 days prior to collection.		Avoid repeated freeze / thaw cycles
413	Methylmalonic acid (MMA)	S, U (R)	S: 2 ml U:10 ml	LC-MS	25 days	Same day	4 days at 2-8°C, 1 month at -20°C	at 2-8°C, at -20°C	Not recommended	Serum: gross hemolysis, Lipemic	
414	Microsporidia stool	Stool	2.0 gr.	Direct smear, Ziehl neelsen stain	Daily	2 days later	1 day at RT, 2 days at 2-8°C	at RT, at 2-8°C	Not recommended		
415	Mixing Test	PC (platelet-poor plasma)	1	Coagulation	Daily	Same day	2 hrs. at RT, 14 days at -20°C CRITICAL FROZEN	at -20°C	Notice use warfarin, coumadin, heroine, ...	Hemolysis	Be separated quickly
416	Mono test	S	0.5	Agglutination	Daily	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis	
417	Morphine (quantitative)	U (R)	2	Photometric	Odd days	Next day	7 days at RT, 1 month at 2-8°C, 1 year at -20°C	at 2-8°C, at -20°C	Notice using of codeine drugs, ...		
418	MPO Ab	S, PE, PC, PH	0.5	Elisa	Tue	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended		

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
419	MSUD (DNPH)	U (R)	10	Chemical & TLC	5 days	Same day	1 day at 2-8°C , 1 month at -20°C	at 2-8°C, at -20°C	Not recommended		
420	MTHFR A 1298 C mutation PCR	WB (E)	5	PCR	4 days	Same day	3 days at RT, 7 days at 2-8°C	at 2-8°C	Not recommended	Frozen, Incorrect anticoagulant, Clotting, Hemolysis	
421	MTHFR C 677 T mutation PCR	WB (E)	5	PCR	4 days	Same day	3 days at RT, 7 days at 2-8°C	at 2-8°C	Not recommended	Frozen, Incorrect anticoagulant, Clotting, Hemolysis	
422	MTX (Methotrexate)	S	1	HPLC	2 days	Same day	1 day at 2-8°C, 3 months at -20°C (dark place)	at 2-8°C, at -20°C	Not recommended		
423	Mucopolysaccharides (MPS)	U (R)	5	Chemical	3 days	Same day	1 month at -20°C CRITICAL FROZEN	at -20°C	Not recommended		
424	Mumps Ab (IgG)	S, CSF	0.5	Elisa	Sat	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis	Avoid repeated freeze / thaw cycles
425	Mumps Ab (IgM)	S, CSF	0.5	Elisa	Sat	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis	Avoid repeated freeze / thaw cycles

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
426	Mumps PCR	Buccal & Oral swab, Saliva, Plasma (EDTA), CSF, Saliva, Urine, Amniotic fluid,...	One swap, fluids :1-2 ml	Qualitative PCR	5 days	Same day	1 hour at RT, 1 day at 2-8°C, 1 week at -70°C	2-8°C, swab & urine sediman (15 min at 2500 g 4°C) in VTM (phosphate buffer saline with 1% BSA, 0.5% gelatin, 2% serum)	Not recommended	Incorrect anticoagulant (heparin), Formalinized fluids, Calcium alginate tipped, wood and gel media swab, Hemolysis	
427	Mycobacterium Culture	Sput., tissue, BF,...	S:>1 ml T:>1 gr B:>2ml	Petroff	Daily	2 months later	2 days at 2-8°C	at 2-8°C	Not recommended		
428	Mycobacterium Direct smear	Sput., tissue, BF,...	S:>1 ml T:>1 gr B:>2ml	Ziehl Neelsen	Daily	2 days later	2 days at 2-8°C	at 2-8°C	Not recommended		
429	Mycobacterium (Tuberculosis & Bovis) PCR	Respiratory sample, Tissue (Fresh & block), BF, Gastric juice, Urine, Stool,...	Fluids: 5 ml, Tissue: 5 mm, Stool: 5 gr.	Qualitative PCR	3 days	Same day	7 days at 2-8°C, 2 weeks at -20°C	at 2-8°C (preferred)	Not recommended	Blood samples, Formalin added sample	
430	Mycobacterium Tuberculosis MDR (Isoniazid & Rifampin)	Respiratory sample, Tissue (Fresh & block), BF, Gastric juice, Urine, Stool, Pure culture of TB,...	Fluids: 5 ml, Tissue: 5 mm, stool: 5 gr.	Qualitative PCR	6 days	Same day	7 days at 2-8°C	at 2-8°C	Not recommended	Blood samples, Formalin added sample	

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
431	Mycoplasma hominis culture	Vaginal, Urethral, Urine, Semen,...		PLO broth	Daily	5 days late	6 hrs. at RT, 1 day at 2-8°C in transport media	at 2-8°C in transport media	Abstain using antibiotic		
432	Mycoplasma Pneumonia Ab (IgG)	S, PE, PH	0.5	Elisa	Mon & Thu	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis	
433	Mycoplasma Pneumonia Ab (IgM)	S, PE, PH	0.5	Elisa	Thu	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis	
434	Mycoplasma Pneumonia PCR	Respiratory samples, Throat and Nasopharynx swab, CSF, Pleural fluid	1 ml	Qualitative PCR	5 days	Same day	1 day at RT, 3 days at 2-8°C, 1 month at -20°C	at 2-8°C (preferred), at -20°C	Not recommended	Formalinized sample	
435	Myoglobin	U (R)	10	Chemical	Daily	Next day	3 days at 2-8°C, 1 month at -20°C	at 2-8°C, at -20°C	Not recommended		
436	Myositis Ab panel	S	1	Immunoblot	Wed	Next day	5 days at 2-8°C, 2 month at -20°C	at 2-8°C, at -20°C	Not recommended	Gross: Hemolysis, Lipemic	Ribosomal-p, SRP, Ku, Mi-2, PL-12, PL-7, PM / Scl-100, Jo-1, Mitochondrial
437	Nasal dis. culture	Nasal dis.		Aerobic	Daily	4 days later	The same time must be tested.	at 2-8°C	Abstain using antibiotic		

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
438	NBT	WB (E)	1		Daily	Next day	The same day at 2-8°C (8 hrs.)	at 2-8°C	Not recommended	Hemolysis, Frozen, Clotting, Incorrect anticoagulant, severe leukopenia	
439	Neisseria gonorrhoea PCR	Urethra, vaginal & Cervix swab, Urine (first), ... Urethra, Vaginal & Cervix with transport media	1	Qualitative PCR	5 days	Same day	7 days at RT, 7 days at 2-8°C, 3 months at -20°C	2-8°C (preferred)	Not recommended		
440	Neisseria meningitidis PCR	CSF	1	Qualitative PCR	3 days	Same day	1 day at RT, 7 days at 2-8°C	1 day: at RT, 1 week: at 2-8°C	Not recommended		
441	Neuronal Ab (panel 1) (paraneoplastic)	S	1	Immuoblot	Wed	Next day	5 days at 2-8°C, 2 months at -20°C	at 2-8°C, at -20°C	Not recommended	Gross: Hemolysis, Lipemic	Amphiphysin, Cv2, PNMA2/ Ta (Ma2 / Ta), Ri, Yo, Hu, Recoverin, SOX1, Titin, Zic4, GAD65, Tr (DNER)
442	Neuronal Ab (panel 2) (paraneoplastic)	S	1	Immuoblot	8 days	Same day	5 days at 2-8°C, 2 months at -20°C	at 2-8°C, at -20°C	Not recommended	Gross: Hemolysis, Lipemic	DPPX, LGL 1, CASPR 2, GABAB receptor, Glu. Recep (type AMPAR & NMDA), Hippocam, Cerebellum, Voltage G.P.C. Ab,
443	NGAL	U (R), S, PE	2, 0.5	Elisa	7 days	Same day	1 day at 2-8°C, 2 months at -20°C	at 2-8°C, at -20°C	Not recommended		

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
444	Noradrenaline (Norepinephrine)	PE, U (24h/R) (See table1)	1, 10	Elisa/HPLC	15 days / Thu	Next day	PE:1 m at -20°c U: 7 days at 2-8°c, 1 month at -20°c PE: CRITICAL FROZEN	at 2-8°c, at -20°c	Abstain from emotional and mental stress, medications for 3 days prior to collection.	Gross hemolysis	
445	Normetanephrine	U (See table 1) pH: 2-3	5	Elisa	Sun & Thu	Next day	7 days at 2-8°c , 1 month at -20°c (dark place)	at 2-8°c, at -20°c	Abstain from emotional and mental stress, medications for 3 days prior to collection.		
446	NMO-G Ab	S, PE, PC, CSF	1	IFA	Odd days	Next day	7 days at 2-8°c, 1 month at-20°c	at 2-8°c, at -20°c	Not recommended	Hemolysis, Lipemic, Icteric	Avoid repeated freeze / thaw cycles
447	NMP-22	U (R)	5	Immunochrm.	Daily	Same day	2 hrs. at RT	at RT	Not recommended		
448	NRAS	Biopsy, Paraffin block	B: 5mm, Pb:5mm tissue	PCR	By contact		Biopsy (formalin fixed) 1 month at RT, Paraffin block with 5mm tissue	at RT	Not recommended		
449	NSE (Neuron Specific Enolase)	S, CSF	1	ECLIA	10 days	Same day	5 days at 2-8°c, 3 months at -20°c	at 2-8°c, at -20°c	Not recommended		

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
450	Occult blood	Stool	1.0 gr.	Mayer	Daily	Same day	1 hr at RT, 1 day at 2-8°C, 3 days at -20°C	at RT, at 2-8°C, at -20°C	Abstain ingestion of red meat, turnip, radish, kind of cabbages, carrot, fruits (melon, watermelon, cantaloupe), citrus, vitamin C, tart extracts, 3 days prior sample collection and iron, anti inflammatory non steroidal drugs such as ibuprofen, naproxen, aspirin, colchicine, indomethacin, corton,... 7 days prior sample collection		
451	Osmolality	S, Stool, U (R & 24h) (see table1)	1, 5, 1 gr.	S: calculation U: Refractometer	Daily	Same day	7 days at 2-8°C, 2 months at -20°C (Stool must be frozen at once)	at 2-8°C, at -20°C	Not recommended		
452	Osmotic fraquility	WB (H) and WB (E)	2, 5	Hemolysis	Daily	Next day	1 day at RT	at RT	Fasting	Hemolysis, Frozen, Clotting, Incorrect anticoagulant	
453	Osteocalcin	S, PE	0.5	ECLIA	10 days	Same day	3 days at 2-8°C, 2 months at -20°C	at 2-8°C, at -20°C	Not recommended		
454	Oxalate	U (24h & R) (see table 1) pH: 1.5-2	10	Photometric	Daily	Next day	7 days at 2-8°C, 1 month at -20°C	at 2-8°C, at -20°C	Abstain ingestion of Vitamin C, Orange, Lemon, Grapefruit, Tomatoes, Spinach, Strawberry,... 3 days prior to collection		

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
455	Oxazepam	S	2	HPLC	4 days	Same day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended		
456	Oxcarbamazepin	S	1	HPLC	5 days	Same day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended		
457	Oxidant/antioxidant balance	S	0.5	Elisa	14 days	Same day	2 days at 2-8°C, 2 months at -20°C	at 2-8°C, at -20°C	Not recommended		
	PINP	S, PE, PH	1	ECLIA	10 days	Same day	5 days at 2-8°C, 6 months at -20°C	at 2-8°C, at -20°C	Not recommended		
458	PAI mutation (675 4G/5G & 844 A/G)	WB (E)	5	PCR	5 days	Same day	3 days at RT, 7 days at 2-8°C	at 2-8°C,	Not recommended	Frozen, Incorrect anticoagulant, Clotting, Hemolysis	
459	Pap smear (cytology)	Liquid bases. (Thin prep / E prep)		Betsda	3 days	Same day	7 days at RT.	at RT	Abstain sexual intercourse for 3 days. Avoid using vaginal cream,... for few days		
460	Pap smear (cytology)	Prepared slides		Betsda	2 days	Same day	Unlimited after fixation, at RT	at RT	Abstain sexual intercourse for 3 days. Avoid using vaginal cream,... for few days		

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
461	Papp-A	S	0.5	ECLIA	Daily	Next day	5 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	
462	Parvovirus B19 Ab (IgG)	S, BF, CSF	0.5	Elisa	Sun	Next day	7 days at 2-8°C, 2 months at -20°C	at 2-8°C, at -20°C	Not recommended		
463	Parvovirus B19 Ab (IgM)	S, BF, CSF	0.5	Elisa	Sun	Next day	7 days at 2-8°C, 2 months at -20°C	at 2-8°C, at -20°C	Not recommended		
464	Parvovirus PCR	Plasma (EDTA), Serum, CSF, Tissue, BMA, Bodyfluids, Amniotic fluid, Vesicle fluid, WB (EDTA), Paraffin block		Qualitative PCR	5 days	Same day	Tissue : Fresh, 1 m at < -70°C BMA: 8 hrs at RT, 3 days at 2-8°C Others: 8 hrs at RT, 3 days at 2-8°C, 6 months at -20°C Paraffin block at RT (unlimited)	Tissue : Fresh Others: 2-8°C (preferred) Paraffin: block at RT.	Not recommended	Incorrect anticoagulant (Heparin), Formalinized fluids. Lysed sample.	
465	Pathergy test	Skin test			24 hrs.	Same day			Not recommended		

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
466	Paul Bunnell	S	0.5	Agglutination	Even days	Next day	5 days at 2-8°C, 2 months at -20°C	at 2-8°C, at -20°C	Not recommended		
467	PBS (peripheral blood Smear)	WB (E)	1	Wright & Giemsa stain	Daily	Same day	4 hrs at RT, 1 day at 2-8°C	at RT, at 2-8°C	Not recommended	Hemolysis, Clotting, Frozen, Incorrect anticoagulant	
468	Pedicularis test	Skin, Hair,..		Direct smear	Daily	Next day	7 days at RT/ 2-8°C	at RT	Avoid using antibiotic & washing		
469	Pericardial fluid culture	Pericardial fluid	5	Aerobic & aerobic	Daily	2, 5, 8 days later	The same time must be tested	at RT	Avoid using antibiotic		
470	Phenobarbital	S	1	HPLC	Daily	Next day	2 days at RT, 7 days at 2-8°C, 14 days at -20°C	at 2-8°C, at -20°C	Not recommended		
471	Phenylalanine	PE, DBS	1	HPLC	Odd days	Next day	Fresh plasma; 1 day at 2-8°C, 1 month at -20°C 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	Fasting	Hemolysis	

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
472	Phenytoin	S	1	HPLC	Daily	Next day	4 hrs. at RT, 4 days at 2-8°C, 1 month at -20°C	at 2-8°C, at -20°C	Abstain using salicylates before few days.		
473	Phosphorus	S, PH, U	0.5	Photometric	Daily	Same day	4 hrs. at RT, 4 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Fasting	Hemolysis, Icteric, Lipemic	Avoid repeated freeze / thaw cycles
474	PKU	U (R)	10	Chemical	3 days	Same day	4 days at 2-8°C, 1 month at -20°C	at 2-8°C, at -20°C	Not recommended		
475	Pleural fluid culture	Pleural fluid	5	Aerobic & An.	Daily	2, 5, 8 days later	The same time must be tested.	at 2-8°C°	Avoid using antibiotic		
476	PML /RAR PCR-AML-3 (quality)	WB (E), BMA (E)	5	PCR	4 days	Same day	2 days at 2-8°C	at 2-8°C°	Not recommended	Hemolysis, Clotting, Frozen, Incorrect anticoagulant	
477	PML /RAR PCR-AML-3 (quantity)	WB (E), BMA (E)	5	PCR	5 days	Same day	2 days at 2-8°C	at 2-8°C°	Not recommended	Hemolysis, Clotting, Frozen, Incorrect anticoagulant	
478	Pneumonia Ab (IgG)	S	0.5	Elisa	15 days	Same day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
479	Pneumonia Ab (IgG2)	S	0.5	Elisa	15 days	Same day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended		
480	Porphobilinogen	U (R & 24h) (see table 1)	10	Column chrom	25 days	Same day	2 days at 2-8°C, 3 months at -20°C (dark place)	at 2-8°C, at -20°C	Take and storage in dark container		
481	Porphyrines	U (R & 24h) (see table 1)	10	Chemical	Daily	Next day	2 days at 2-8°C, 3 months at -20°C (dark place)	at 2-8°C, at -20°C	Take and storage in dark container		
482	PCT (Post coital test)	Vaginal dis.	0.5	Direct smear	Daily	Same day	Must be tested rapidly.		Not sexual intercourse for 3 days		
483	Potassium (Kalium)	S, BF, Stool, U (R & 24h) (see table 1)	0.5, Stool 0.5 gr.	ISE	Daily	Same day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Blood collecting without tourniquet.	Hemolysis, Icteric, Lipemic	
484	Pregnancy test	U	10	Latex agglut.	Daily	Same day	2 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended		
485	Primidone	S	0.5	HPLC	Daily	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended		

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
486	Progesterone	S, PE	0.5	CLIA	Daily	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	Avoid freeze / thaw cycle
487	Prolactin	S, PE	0.5	CLIA	Daily	Next day	4 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Sample collecting 3 hrs after awake. Abstain sexual activity and stress 2 days before test. Avoid using estrogen, Insulin, ... few days before test.	Hemolysis, Icteric, Lipemic	
488	Procalcitonin	S, PE, PH	1	ECLIA	Sat, Tue	Next day	4 days at 2-8°C, 3 month at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis (gross), Icteric	Avoid freeze / thaw cycle
489	Prostatic dis. Culture	Prostatic dis.		Aerobic	Daily	4 days later			Avoid using antibiotic		
490	Protein C	PC , (Platelet - poor plasma)	1	Chromogenic	Daily	Next day	2 hrs at RT, 1 month at -20°C CRITICAL FROZEN	at -20°C	Abstain using Warfarin, Coumadin, Estrogen,... 10 days before test	Hemolysis, Icteric, Lipemic Incorrect anticoagulant. Icteric, Lipemic for non - coagulation method	Avoid repeated freeze / thaw cycles. Be separated quickly / Two times centrifugation is preferred.

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
491	Protein S	PC, (Platelet-poor plasma)	1	Coagulation	daily	Next day	2 hrs at RT, 1 month at -20°C CRITICAL FROZEN	at -20°C	Abstain using Warfarin, Coumadin, Estrogen,... 10 days before test	Hemolysis, Incorrect anticoagulant, Icteric, Lipemic for non-coagulation method.	Avoid repeated freeze / thaw cycles. Be separated quickly / Two times centrifugation is preferred.
492	Protein electrophoresis	S, U (R or 24 hrs.) (See table 3)	1, 10	Capillary elect., SDS page	Daily	2 days later	7 days at 2-8°C, 1 month at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis	
493	Pro BNP-NT	S, PE, PH	1	ECLIA	Daily	Same day	6 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis	
494	Protein total	S, BF, U, CSF	0.5	Photometric	Daily	Same day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	avoid freeze / thaw cycle
495	PSA	S, PH	0.5	CLIA	Daily	Next day	2 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Fasting is recommended. Abstain prostate exam, heavy exercise & ejaculation 2 days before test	Hemolysis, Icteric, Lipemic	avoid freeze / thaw cycle
496	PT (prothrombin time)	PC, (Platelet-poor plasma)	1	Coagulation	Daily	Next day	2 hrs. at RT, 14 days at -20°C CRITICAL FROZEN	at RT, at -20°C,	Notice use Warfarin, Coumadin, Heroine, ...	Hemolysis	Be separated quickly

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
497	PTH	S, PE	0.5	CLIA, ECLIA	Daily	Next day	2 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Fasting	Hemolysis, Icteric, Lipemic	
498	PTH (1-84)	S, PE	1	ECLIA	Wed	Next day	1 day at 2-8°C, 2 months at -20°C	at 2-8°C, at -20°C	Fasting	Hemolysis, Incorrect anticoagulant	
499	Pyruvate	WB on cold perchloric acid (0.6 M)	1	Chemical	Daily	Same day	After preparation: 7 days at 2-8°C 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis	Be separated quickly. Sample collecting with cold tube & syringe
500	Pyruvate kinase	WB (E)	2	Chemical	25 days	Same day	7 days at 2-8°C	at 2-8°C	Not recommended	Hemolysis, Incorrect anticoagulant	
501	R.P.R	S	0.5	Agglutination	Daily	Same day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended		avoid freeze / thaw cycle
502	Reducing substance	U (R), Stool	5 ml, 2 gr.	Chemical	Daily	Same day	2 days at 2-8°C, 14 days at -20°C	at 2-8°C, at -20°C	Not recommended		

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
503	Renin	PE	1	CLIA	Odd days	Next day	1 month at -20°C CRITICAL FROZEN	at -20 °c	Fasting recommended, Notice use blood pressure drugs, diuretics and collecting sample position (upright & supine) .Normal sodium diet (100-200 mEq / day) for at least three days. Take no medications known to affect renin-aldosterone system.	Hemolysis, Icteric, Lipemic, Incorrect anti-coagulant	avoid freeze / thaw cycle, samples must be treated at the usual temperature (15-25 °c), and centrifuged at room temperature and must be frozen immediately
504	Reticulocyte	WB (E)	0.5	Supravital stain.	Daily	Same day	6 hrs. at RT, 3 days at 2-8°C	at RT, at 2-8°C	Not recommended	Hemolysis, Icteric, Lipemic, Clotting, Frozen, Incorrect anticoagulant	
505	RF (quantitative & qualitative)	S, PE, PH	0.5	Immunoturb	Daily	Same day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis	
506	Rubella Ab (IgG)	S, PE, PH, BF, CSF	0.5	CLIA	Daily	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	
507	Rubella Ab (IgG) - avidity	S	0.5	Elisa	Mon	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
508	Rubella Ab (IgM)	S, PE, PH, BF, CSF	0.5	CLIA	Daily	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	
509	Rubella PCR	Plasma (EDTA), Body fluids, CSF, Cord blood (EDTA), Saliva, Amniotic fluid, Throat swab, Urine, WB (EDTA)	1 ml	Qualitative PCR	5 days	Same day	8 hrs at RT, 1 day at 2-8°C, 1 week at < -20°C	2-8°C (preferred)	Not recommended	Incorrect anticoagulant (heparin), Formalinized fluids, Calcium alginate tipped, wood and gel media swab, Hemolysis	
510	S-100	S	1	Elisa	10 days	Same day	5 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Gross hemolysis	
511	Scabiasis	Skin scratching sample		Direct smear	Daily	Same day	Must be tested the same day	at RT	Not recommended		
512	Scotch test	Perianal sample	2 slides	Direct smear	Daily	Same day	Must be tested the same day	at RT	Not recommended		
513	Selenium	S	1	Atomic abs.	4 days	Same day	2 days at RT, 7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended		

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
514	Semen analysis	Semen		Manual, CASA method	Daily	Same day	The same time must be tested. Post vasectomy 1 day at RT or 2-8°C.		Collect sample between 2-7 days after last ejaculation.	Mixing sample with water, urine	
515	Semen culture	Semen		Aerobic	Daily	4 days later	The same time must be cultured		Avoid using antibiotic		
516	Semen fructose	Seminal plasma	0.5	Chemical	3 days	Same day	3 months at -20°C CRITICAL FROZEN	at -20°C	Not recommended		
517	Serotonin	S, U 24h (Hcl) (see table 1)	1	HPLC	25 days	Same day	2 months at -20°C CRITICAL FROZEN	at -20°C	Not recommended		
518	SGOT (AST)	S,PH	0.5	Photometric	Daily	Same day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Notice use hepatotoxic drugs	Hemolysis, Incorrect anticoagulant, Lipemic	avoid freeze / thaw cycle
519	SGPT (ALT)	S, PH	0.5	Photometric	Daily	Same day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Notice use hepatotoxic drugs	Hemolysis, Incorrect anticoagulant, Lipemic	avoid freeze / thaw cycle
520	SHBG	S, PE	0.5	ECLIA	Sun	Next day	5 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	avoid freeze / thaw cycle

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
521	Sickle prep	WB (E)	0.5	Physical observe	Daily	Next day	2 days at 2-8°C	at 2-8°C	Not recommended	Frozen, Clotting, Incorrect anticoagulant, Hemolysis	
522	Sirolimus	WB (E)	2	CLIA	Sun, Tue	Next day	7 days at 2-8°C, 2 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Clotting, Frozen, Incorrect anticoagulant	
523	Sodium	S, BF, U (R & 24h), Stool (see table 1)	0.5, Stool 0.5 gr.	ISE	Daily	Same day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis	
524	Special stain	Slides or block (see table 3)	1 slide	Slide staining	Daily	2 days later	at RT	at RT	Not recommended		
525	Sperm washing	Semen	2	Swim down	Daily	2 hrs later	Must be tested quickly (maximum 30 min)	at 37°C	Collect sample between 2-7 days after last ejaculation.	Mixing sample with water, urine	
526	Sputum culture	Sputum	1	Aerobic	Daily	5 days later	2 hrs. at RT, 1 day at 2-8°C	at 2-8°C	Avoid using antibiotic		
527	Stone analysis	Urinary tract stone		Chemical	Daily	Next day	at RT	at RT	Not recommended		

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
528	Stool Culture	Stool	1.0 gr.	Aerobic	Daily	3 days later	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	Avoid using antibiotic	Frozen sample	
529	Stool exam	Stool	1.0 gr.	Formalin ether, Direct smear	Daily	Same day	Bloody & mucosal samples must be tested quickly Others: 3 days at RT, 1 month at 2-8°C. Added formalin 10%, stable 3 yrs.	at RT, at 2-8°C	Not recommended	Frozen sample, Specimens containing barium, oil, or urine.	
530	Stool fat	Stool	0.5 gr.	Sudan black III	Daily	Same day	1 hr at RT, 4 days at 2-8°C, 14 days at -20°C	at RT, at 2-8°C	Not recommended		
531	Streptococcus pneumoniae PCR	CSF	1	PCR	5 days	Same day	7 days at 2-8°C, 14 days at -20°C	at 2-8°C, at -20°C	Not recommended		
532	Strongyloides stercoralis Ab (Total)	S	0.5	Elisa	Thu	Next day	5 days at 2-8°C, 2 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis	

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
533	Strongyloides stercoralis culture	Stool	2.0 gr.	Agar plate	Daily	6 days later	1 day at RT, 2 days at 2-8°C,	at RT, at 2-8°C	Not recommended		
534	Sucrose hemolysis test	WB (E) & S and same samples with isoblood group.	WB: 2.0, S: 1.0	Hemolysis	Daily	Next day	1 day at RT	at RT	Not recommended	Hemolysis, Clotting, Frozen, Incorrect anticoagulant,	Be separated quickly
535	Sugar chromatography	U (R)	5	TLC	Odd days	Next day	4 days at 2-8°C, 1 month at -20°C	at 2-8°C, at -20°C	Not recommended		
536	Sweat test	Sweat	200 mg	Automation	Daily	Same day	1 day at 2-8°C	at 2-8°C	Not recommended		
537	Synovial fluid culture	Synovial fluid	2	Aerobic & An.	Daily	2, 5, 8 days later	The same time must be tested.	at RT	Avoid using antibiotic		
538	T3	S, PE, PH	0.5	ECLIA	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	Notice hormonal treatment & gestation	Hemolysis, Icteric, Lipemic	avoid freeze / thaw cycle
539	T3 up	S, PE, PH	0.5	Elisa	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	Fasting	Hemolysis, Icteric, Lipemic	

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
540	T4	S, PE, PH	0.5	ECLIA	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	Notice to hormonal treatment & gestation	Hemolysis, Icteric, Lipemic	avoid freeze / thaw cycle
541	Tacrolimus	WB (E)	2	ECLIA	Even days	Next day	7 days at 2-8°C, 2 months at -20 °C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Clotting, Frozen, Incorrect anticoagulant	
542	Tau protein	CSF	0.5	Elisa	25 days	Same day	5days at 2-8°C, 1 month at -20°C	at 2-8°C, at -20°C	Not recommended		
543	Testosterone	S, PE, PH	0.5	CLIA	Daily	Next day	5 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	The best time for sampling is 6-10 am. Fasting is recommended.	Hemolysis, Icteric, Lipemic	
544	Tetanus Ab (IgG)	S	0.5	Elisa	15 days	Same day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	Be separated quickly. Avoid freeze / thaw cycle
545	Thallium	WB (E)	3	ICP	25 days	Same day	7 days at 2-8°C, 2 months at -20°C	at 2-8°C, at -20°C	Not recommended		
546	Theophylline	S	1	CLIA	6 days	Same day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	avoid freeze / thaw cycle

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
547	Throat Culture	Throat swab	3 swabs	Aerobic culture	Daily	4 days later	Must be tested the same time	at RT	Avoid using antibiotic		
548	Thrombin time (TT)	PC, (Platelet - poor plasma)	1	Coagulation	Daily	Same day	2 hrs. t RT , 14 days at -20°C, CRITICAL FROZEN	at RT, at -20°C	Notice use Warfarin, Coumadin, Heroine, ...	Hemolysis	Be separated quickly
549	Thyroglobulin	S	0.5	ECLIA	Daily	Next day	2 days at 2-8°C , 3 months at -20°C	at 2-8°C, at -20°C	Abstain from doing this test after FNA form thyroid, thyroid surgery and treatment with radioactive substance.	Hemolysis, Icteric, Lipemic	avoid freeze / thaw cycle
550	Thyroid Microsomal Ab	S, PE, PH, PC	0.5	CLIA	Daily	Next day	4 days at 2-8°C , 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	Be separated until 20-30 min. Avoid freeze / thaw cycle
551	Thyroid peroxidase (TPO Ab)	S, PE, PH, PC	0.5	CLIA	Daily	Next day	4 days at 2-8°C , 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	Be separated until 20-30 min. Avoid freeze / thaw cycle
552	Thyroxine binding globulin (TBG)	S	0.5	Elisa	By contact		1 day at 2-8°C, 1 month at -20 °C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	avoid freeze / thaw cycle
553	TIBC	S	1	Photometric	Daily	Same day	7 days at 2-8°C, 3 months at -20 °C	at 2-8°C, at -20°C	Fasting	Hemolysis, Icteric, Lipemic	avoid freeze / thaw cycle

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
554	Tissue pathology	Tissue(10% formalin)	5 mm		5 days	Same day	1 month after fixation (10% formalin) at RT or 2-8°C	at RT, at 2-8°C	Not recommended		
555	TNF-a	S, PE, PH	1	Elisa	10 days	Same day	6 months at -20°C CRITICAL FROZEN	at -20°C	Not recommended	Gross: Hemolysis, Icteric, Lipemic	avoid freeze / thaw cycle
556	Topamax (Topiramate)	S	1	HPLC	4 days	Same day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended		
557	Total lipid	S	1	Photometric	Even days	Next day	10 days at 2-8°C	at 2-8°C, at -20°C	Fasting	Frozen sample	Be separated quickly
558	Toxicology (Drug abuse)	WB, BF (see table 2)	10, 50	TLC & chemical	Odd days	Next day	7 days at 2-8°C, 2 months at -20°C	at 2-8°C, at -20°C	Not recommended		
559	Toxocara Ab (IgG)	S, PE, PH, BF	0.5	Elisa	Wed.	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	avoid freeze / thaw cycle
560	Toxoplasma Ab (IgG)	S, PE, PH, BF, CSF	0.5	CLIA, IFA	Daily	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
561	Toxoplasma Ab (IgG) - avidity	S	1	CLIA	Sun, Wed	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	
562	Toxoplasma Ab (IgM)	S, PE, PH, BF, CSF	0.5	CLIA, IFA	Daily	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	
563	Toxoplasma PCR	Serum, WB (EDTA), BF, Amniotic fluid, CSF, Tissue, Ocular fluid, ...	Fluid: 1 ml Tissue: 5 mm	Qualitative PCR	3 days	Same day	8 hrs at RT, 3 days at 2-8°C, 3 months at -20°C Tissue: 3 months at < -70°C	2-8°C (preferred)	Not recommended	Incorrect anticoagulant (heparin), Hemolysis, Clot sample (WB), Formalinized sample	
564	TPMT mutation PCR (G238C & G460A & A719G)	WB (E), WB (ACD)	5	PCR	4 days	Same day	5 days at 2-8°C, 1 month at -20°C	at 2-8°C, at -20°C	Not recommended	Incorrect anticoagulant, Hemolysis	
565	Transferrin	S, PE, PH	0.5	Immunoturb	Daily	Same day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	avoid freeze / thaw cycle
566	Transferrin saturation	S, PE, PH	0.5	Photometric	Daily	Same day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended		
567	Triglycerides	S, PH	0.5	Photometric	Daily	Same day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Fasting 12 hrs. Abstain using alcohol before 3 days.	Hemolysis, Icteric	avoid freeze / thaw cycle

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
568	Troponin I	S, PE, PH	0.5	CLIA	Daily	Same day	7 days at 2-8°C, Indefinitely at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	
569	Trypsin activity (stool)	Stool	0.5 gr.	Chemical	Daily	3 days later	7 days at -20°C CRITICAL FROZEN	at -20°C	Not recommended	Specimens containing barium.	
570	Tryptase	S	2	FEIA	25 days	Same day	2 days at 2-8°C, 2 months at -20°C	at 2-8°C, at -20°C	Not recommended	Gross hemolysis	
571	TSH	S, PE, PH	0.5	ECLIA	Daily	Next day	5 day at 2-8°C, 1 month at -20°C	at 2-8°C, at -20°C	Notice to hormonal & chemotherapy drugs	Hemolysis, Icteric, Lipemic	
572	TTG Ab (IgA)	S	0.5	Elisa	Even days	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Lipemic	avoid freeze / thaw cycles
573	TTG Ab (IgG)	S	0.5	Elisa	Even days	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Lipemic	avoid freeze / thaw cycles
574	Tuberculin test	Skin test			Daily	3 days later	Must be reported 48-72 hrs. After injection.		Not recommended		

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
575	Tyrosine	PE	1	HPLC	Odd days	Next day	1 day at 2-8°C , 1 month at -20°C	at 2-8°C, at -20°C	Fasting. Abstain using from androgen drugs, glucagon, vitamin C before few days.	Hemolysis	Be separated quickly
576	UBT	(see sop 5)		with Carbon14	Daily	Same day	Breathing card after collecting 14 days at paper envelope	at RT	Fasting 6 hrs. Abstain 1 month from antibiotics & bismuth, 7 days H2 receptor & proton pump inhibitor (Cimetidine, Omeprazole, Clidinium C, ...)		
577	Urea	S, PE, U (R & 24h), BF (see table1)	0.5	Photometric	Daily	Same day	5 days at 2-8°C, 3 months at -20°	at 2-8°C, at -20°C	Nephrotoxic drugs will change blood urea level.	Hemolysis, Icteric, Lipemic	avoid freeze / thaw cycles
578	Ureaplasma urealyticum culture	Urethral & vaginal dis., U, Prostate dis., semen,...		PLO broth	Daily	6 days later	6 hrs. at RT, 1 day at 2-8°C in transport media, 1 month at -70°C	at 2-8°C	Avoid using antibiotic		
579	Ureaplasma urealyticum PCR	Urethral & vaginal dis., U, Prostate dis., semen,...	Swab, fluid: 1 ml	PCR	5 days	Same day	7 days at RT, 14 days at 2-8°C, 3 months at -20°C	at RT, at 2-8°C, at -20°C	Not recommended		
580	Urethral dis. culture	Urethral dis.		Aerobic	Daily	4 days later	The same time should be tested.		Avoid using antibiotic		

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
581	Uric acid	S, PE, U (R & 24h), BF (see table1)	0.5	Photometric	Daily	Same day	Serum: 7 days at 2-8°C, 3 months at -20°C Urine: 7 days at 2-8°C, 14 days at -20°C	at 2-8°C, at -20°C	Abstain using salicylates before few days.	Hemolysis, Icteric, Lipemic	avoid freeze / thaw cycles
582	Urine Culture	U (R)	10	Aerobic	Daily	3 days later	Unpreservative 2 hrs. at RT, 1 day at 2-8°C,	24 hrs. at 2-8°C	Avoid using antibiotic		
583	Urine analysis	U (R)	10		Daily	Same day	2 hrs. at RT, 1 day at 2-8°C	at 2-8°C	Not recommended		
584	Urine Organic acid profile	U (R)	10	GC-MS	30 days	Same day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended		
585	Vaginal culture	Vaginal dis.		Aerobic&An.	Daily	4 days later	The same time should be tested.		Avoid using antibiotic		
586	Valproic acid	S	0.5	GC	Daily	Next day	7 days at 2-8°C , 4 months at -20°C	at 2-8°C, at -20°C	Not recommended		

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
587	VBG (Venous blood gas)	WB (H) (Venous blood)	1	Optical fluorescence	Daily	1 hr later	30 min on ice	On ice	Not recommended	Incorrect anticoagulant, warm sample	
588	VDRL	S, BF, CSF	0.5	Flocculation	Daily	Same day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis	
589	VIP (Vasoactive Intestinal Polypeptide)	PE	1	RIA	25 days	Same day	3 months at -20°C CRITICAL FROZEN	at -20°C	Not recommended	Gross: Hemolysis, Lipemic	
590	Vitamin A	S	0.5	HPLC	2 days	Same day	7 days at 2-8°C, 3 months at -20°C (dark place)	at 2-8°C, at -20°C	Fasting. Sample collecting is done in cold tube, syringe. Abstain using alcohol 24 hrs. Before sampling.	Hemolysis, Icteric	Be separated in refrigerated centrifuge.
591	Vitamin B1 (Thiamine)	WB (E)	3	HPLC	25 days	Same day	1 month at -20°C CRITICAL FROZEN	at -20°C	Fasting	Gross Lipemic	
592	Vitamin B2 (Riboflavin)	WB (E)	3	HPLC	25 days	Same day	7 days at 2-8°C (dark Place)	at 2-8°C	Fasting	Hemolysis, gross Lipemic	
593	Vitamin B6 (Pyridoxal 5-Phosphate)	PE	3	HPLC	25 days	Same day	2 months at -20°C (dark place) CRITICAL FROZEN	at -20°C	Fasting	Hemolysis, Lipemic	

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
594	Vitamin B12 (cobalamin)	S	0.5	ECLIA	Daily	Next day	2 days at 2-8°C, 1 month at -20°C (dark place)	at 2-8°C, at -20°C	Fasting	Hemolysis, Icteric	avoid freeze / thaw cycle
595	Vitamin C	S (Centrifuge immediately)	0.5	Chemical	3 days	Same day	1 hr at RT, 14 days at -20°C with preservative (20 mg oxalic acid in 1ml serum) 2 months at -20°C. (dark place)	at -20°C	Fasting preferred. Abstain using contraceptive drugs.	Hemolysis, Icteric	Be separated quickly. The oxalic acid preservative may interfere with other tests
596	Vitamin D (25OH)	S, PH	0.5	CLIA	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	Fasting	Hemolysis, Icteric	avoid freeze / thaw cycle
597	Vitamin E	S	0.5	HPLC	2 days	Same day	7 days at 2-8°C, 3 months at -20°C (dark place)	at 2-8°C, at -20°C	Fasting, abstain from alcohol for 24 hrs.		
598	Vitamin K	S	2	HPLC	25 days	Same day	5 days at 2-8°C, 1 month at -20°C (dark place)	at 2-8°C, at -20°C	Fasting, abstain from alcohol for 24 hrs.	Gross hemolysis, Lipemic	
599	VLCFA (Very long Chain Fatty Acid)	PE	2	GC-MS	60 days	Same day	2 months at -20°C CRITICAL FROZEN	at -20°C	Fasting	Lipemic	avoid freeze / thaw cycle

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
600	VLDL	S, PH	0.5	Calculation	Daily	Next day	5 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Fasting	Hemolysis, Lipemic	
601	VMA (Vanillylmandelic acid)	U (24h & R) (see table 1)	10	Col. chrom.	Daily	2 days later	7 days at 2-8°C with pH: 2-4, or 7 days at -20°C	at 2-8°C	Abstain using coffee, cacao, chocolate, blood pressure drugs, guanidine analogue drugs, mono amine oxidase inhibitors 3 days prior to urine collection.		
602	Von Willebrand Factor (VWF)	PC	3	Coagulation	2 days	Same day	6 hrs. at RT, 14 days at -20°C	at RT, at -20°C	Not recommended		
603	VZV Ab (IgG)	S, BF, CSF	0.5	Elisa	Even days	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	
604	VZV Ab (IgM)	S, BF, CSF	0.5	Elisa	Even days	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	
605	VZV PCR	CSF, Serum, Whole blood (EDTA), U Tissue, Respiratory sample, Plasma (E), Dermal & genital lesion or swab, Amniotic fluid, Ocular dis., Urine	Tissue: 5 mm, Others: 1 ml	Qualitative PCR	3 days	Same day	Tissue: 3 days at 2-8°C, 3 months at -20°C Others: 8 hrs at RT, 3 days at 2-8°C, 3 months at -20°C	Tissue : Frozen, Others: 2-8°C (preferred)	Not recommended	Incorrect anticoagulant (heparin), Formalinized fluids, Tissue (formalin fixes), Calcium alginate tipped, wood and gel media swab, Clot WB	

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
606	Warfarin resistance gene mutation (CYP2C9, VKORC1)	WB (E)	5	PCR	4 days	Same day	2 days at 2-8°C , 2 months at -20°C	at 2-8°C	Not recommended	Hemolysis, Clotting, Frozen, Incorrect anticoagulant	
607	WBC	WB (E)	1	Cell counter	Daily	Same day	4 hrs at RT, 1 day at 2-8°C	at RT, at 2-8°C,	Not recommended	Hemolysis, Clotting, Frozen, Incorrect anticoagulant	
608	WBC Xmatch Auto	WB (H) or WB (E) and serum	WB:5.0, S: 1.0	Cytotoxicity Flow cytometry	Daily	3 days later	12 hrs. at 2-8°C	at 2-8°C	Not recommended		
609	WBC Xmatch Auto (Augmented)	WB (H) or WB (E) and serum	WB: 5.0 S: 1.0	Cytotoxicity Flow cytometry	Daily	3 days later	12 hrs. at 2-8°C	at 2-8°C	Not recommended		
610	WBC Xmatch Donor	WB (H or D) for donor and serum for recipient	WB: 5.0, S: 1.0	Cytotoxicity Flow cytometry	Daily	3 days later	12 hrs. at 2-8°C	at 2-8°C	Not recommended	Hemolysis, Clotting, Frozen, Incorrect anticoagulant	
611	WBC Xmatch Donor (Augmented)	WB (H) or WB (E) for donor and serum for recipient	WB: 5.0, S: 1.0	Cytotoxicity Flow cytometry	Daily	3 days later	12 hrs. at 2-8°C	at 2-8°C	Not recommended	Hemolysis, Clotting, Frozen, Incorrect anticoagulant	
612	WBC Xm donor B-cell	WB (H or D) for donor and serum for recipient	WB: 5.0, S: 1.0	Flow cytometry	Daily	3 days later	12 hrs. at 2-8°C	at 2-8°C	Not recommended	Hemolysis, Clotting, Frozen, Incorrect anticoagulant	

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
613	WBC Xm donor T-cell	WB (H or D) for donor and serum for recipient	WB: 5.0, S :1.0	Flow cytometry	Daily	3 days later	12 hrs. at 2-8°C	at 2-8°C	Not recommended	Hemolysis, Clotting, Frozen, Incorrect anticoagulant	
614	WBC Xmatch panel	S	1	Cytotoxicity Flow cytometry	Daily	3 days later	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis	
615	WBC Xmatch Panel (Augmented)	S	1	Cytotoxicity Flow cytometry	Daily	3 days later	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis	
616	WBC Xm panel B-cell	S	1	Flow cytometry	Daily	3 days later	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis	
617	WBC Xm panel T-cell	S	1	Flow cytometry	Daily	3 days later	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis	
618	Widal agg. Test	S, BF	1	Agglotination	Daily	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended	Hemolysis, Icteric, Lipemic	
619	Wound culture	Wound dis.		Aerobic&An.	Daily	7 days later	The same time must be tested	at RT	Avoid using antibiotic		

	Test name	S. type	S.vol. (ml)	Assay method	Testing time	Reporting time (day)	Storage	Transport	Preparation before sampling	Reject	Others
620	Wright agg. test	S, BF, CSF	0.5	Agglotination	daily	2 days later	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Not recommended		
621	Xylose absorption test	S, U (4h)	0.5, 5	Chemical	By contact		4 days at 2-8°C, 1 month at -20°C	at 2-8°C, at -20°C	Not recommended		
622	Yersinia Ab (IgA)	S	0.5	Elisa (SMC)	7 days	Same day	5 days at 2-8°C, 3 month at -20°C	at 2-8°C, at -20°C	Not recommended		
623	Yersinia Ab (IgG)	S	0.5	Elisa (SMC)	7 days	Same day	5 days at 2-8°C, 3 month at -20°C	at 2-8°C, at -20°C	Not recommended		
624	Zinc	S, BF, U (R & 24h) (see table 1)	0.5, 20	Photometric / Atomic abs.	Daily / By contact	Next day	7 days at 2-8°C, 3 months at -20°C	at 2-8°C, at -20°C	Upon the advice of their physician, patients should be encouraged to discontinue nutritional supplements, vitamins, minerals, and nonessential OTC medications for one week prior to sample draw.	Hemolysis, Icteric, Lipemic	

Urine Preservative Options (24hrs.) (Table 1)

Test name	Temperature			Boric Acid < 15 y : 5 gr >15 y : 10 gr	HCL 6N < 15 y : 5 cc >15 y : 10 cc	Acetic acid 50% < 15 y : 5 cc >15 y : 10 cc	HNO3 6N < 15 y : 5 cc >15 y : 10 cc	Toluene < 15 y : 5 cc >15 y : 10 cc	Description
	15-25 °C	2-8 °C	≤-20 °C						
Albumin	OK	Preferred	OK	OK					
Aldosterone	OK	OK	OK	OK		OK			
Amylase		OK							PH > 7.0
B2 Microglobulin		OK	OK						
Bence Jones Protein		Preferred	OK						
Protein electrophoresis		Preferred	OK						
Calcium	OK	Preferred	OK		OK	OK	OK		
Chloride	OK	Preferred	OK	OK		OK			
Citrate		OK	OK	OK	OK				
Copper	OK	Preferred	OK		OK	OK	OK		
Cysteine		OK	OK		OK			OK	
Creatinine	OK	Preferred	OK	OK	OK	OK	OK	OK	
Epinephrine / Norepinephrine		OK	OK		OK	OK	OK		
Free Cortisol		OK	OK	Preferred		OK			
Glucose		OK	OK	Preferred	OK	OK	OK		
Homovanilic Acid					OK	OK			
5HIAA		OK	OK	OK	OK	OK	OK	OK	Protection from light
Immunoelctrophoresis		Preferred	OK						
Lead	OK	Preferred	OK		OK	OK	OK	OK	
17 Ketosteroids				OK	OK	OK			Protection from light
Micro albumin	OK	Preferred	OK	OK					
Magnesium	OK	Preferred	OK	OK	OK	OK	OK		
Mercury		Preferred	OK		OK	OK	OK	OK	
Metanephrine		OK	OK	OK	OK	OK	OK	OK	Protection from light
Normetanephrine		OK	OK	OK	OK	OK	OK	OK	Protection from light
Dopamine		OK	OK		OK	OK	OK		
Na / K		Preferred	OK	OK					
Oxalate		OK	OK		OK				
Phosphorus	OK	Preferred	OK	OK	OK	OK	OK		
Porphyrine		OK	OK						Protection from light
Protein		Preferred	OK	OK					
Urea		OK	OK	Preferred					
Uric acid		OK	OK	Preferred					
VMA				OK	OK	OK	OK		
Zinc	OK	Preferred	OK		OK	OK	OK		

Toxicology (Drug abuse) (Table 2)

Volatile toxins	Benzodiazepines	Antipsychotic
Ethanol	Diazepam	Thiothixene
Methanol	Oxazepam	Pimozide
Ethylenglycol	Lorazepam	Fluvoxamine
Cyanide	Clonazepam	Risperidone
Phosphide	Flurazepam	Halopridol
Co Hb	Nitrazepam	
	Chlordiazepoxide	Analgesics
Pesticide toxins	Alprazolam	Aspirin
Phosphorous	Clobazam	Acetaminophen
Chlorinated	Zolpidem	Baclofen
Carbamates		Diclofenac
Pyrethroid	Barbiturates	Ibuprofen
	Phenobarbital	Mefenamic acid
Metal toxin	Cyclobarbitol	Indomethacin
Arsenic	Hexobarbital	Naproxen
Mercury	Butobarbital	Oxyphenbutazone
	Secobarbital	Piroxicam
Neutral drugs	Thiopental	Tolmetin
Meprobamate		Jelofen
Metocarbamol	Antidepressant(TCA)	
	Imipramine	Anticonvulsants
Phenothiazines	Amitriptyline	Phenytoin
Chlorpromazine	Nortriptyline	Phenobarbital
Perphenazine	Maprotyline	Carbamazepine
Promethazine	Bupropion	Valproate Na
Thiethylprazine	Desipramine	Gabapentin
Phentazine	Clomipramine	Ethosuximide
Trifluoperazine	Citalopram	Primidone
	Trazodone	Lamotrigin
Tranquilizers	Trimipramine	Topomax
Flouxetine	Isocarboxazid	Keppra
Buspirone	Flavoxamine	
Hydroxyzine	Tranylcypramine	
Droperidol	Moclobemide	
Thioridazine		

Toxicology (Drug abuse) (Table 2)

Cardiac	Narcotic	Others
Digoxin	Morphine	Glibenclamid
Propranolol	Codeine	Metformin
Atenolol	Methadone	Sulfonylurea
Furosemide	Tramadol	
Triamterene	Petidine	
Adalat	Heroin	
Captopril	Diphenoxylate	
Diltiazem	Nalorphine	
Enalapril	Naltrexone	
Quinidine	Neurogesic	
Dipyridamole	Temgesic	
Lozartan	Nicotine	
	Bupropion	
Anticoagulant	Buprenorphine	
Warfarin		
Heparin	Stimulants	
Comarine	Amphetamine	
Dipyridamole	Methamphetamine	
	Ecstasy	
Antihistamine	Ritaline	
Terfenadine	Cocaine	
Loratadine	Krack	
Cetirizine	Cafeine	
Clemastine	Ephedrine	
Chlorpheniramine	Crystal	
Cyproheptadine		
Diphenhydramine	Hallucinogen	
Hydroxyzine	Cannabis(THC)	
Promethazine	LSD	
Telfast	Phencyclidine	
	Marshroom	
Anticholinergic	Marijuana	
Atropin		
Hyosine		
Dicyclomine		

Special stains list (Table 3)

No	Staining name
1	Periodic acid – schiff stain
2	Reticulin stain
3	Trichrome stain
4	Amyloid stain
5	Perls Prussian blue stain
6	Giemsa stain
7	Mucin stain
8	Fontana Masson stain
9	Ziehl Neelsen stain
10	Wrights stain
11	Alcin blue stain
12	Orcein stain
13	Grocotts methenamine silver stain
14	Toluidine blue stain
15	Von Kossa stain
16	Jones stain

CD markers list (Table 4)

No	Antibody	Label	No	Antibody	Label
1	CD1a	FITC	31	CD41	PE
2	CD2	PE	32	CD43	FITC
3	CD3	FITC	33	CD44	PE
4	CD4-8	4: FITC	34	CD45	FITC
5	CD4	FITC	35	CD54	FITC
6	CD5	PE	36	CD56	FITC
7	CD7	PE	37	CD 55	PE
8	CD8	FITC	38	CD 59	FITC
9	CD9	FITC	39	CD61	FITC
10	CD10	PE	40	CD64	PE
11	CD11a	PE	41	CD68	FITC
12	CD11b	PE	42	CD71	FITC
13	CD11c	FITC	43	CD79	PE
14	CD13	PE	44	CD103	PE
15	CD14	PE	45	CD117	PE
16	CD15	FITC	46	IgD	FITC
17	CD16	FITC	47	IgM	PE
18	CD18	PE	48	HLA-DR	FITC
19	CD19	CY5	49	TdT	FITC
20	CD19	PE	50	MPO	PE
21	CD20	FITC	51	FMC 7	FITC
22	CD21	PE	52	NC	PE
23	CD22	PE	53	NC	CY5
24	CD23	PE	54	NC-Dual	F-P
25	CD25	FITC	55	CD45RO	PE
26	CD27	PE	56	CD138	PE
27	CD33	FITC			
28	CD34	FITC			
29	CD38	FITC			
30	CD38	PE			

IHC Markers (Table 5)

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A) Lymphoma panel markers		16	Cox-2
1	κ Light chain (polyclonal)	17	E-Cadherin
2	λ Light chain (polyclonal)	18	RCC
3	CD20	19	P63
4	CD3	20	MUC-2
5	CD45RO	21	P16
6	CD45 (LCA)	22	Napsin A
7	CD30	23	PAX8
8	CD15	C) Mesenchymal markers	
9	CD5	1	β-Catenin
10	Cycline D1	2	CD117 (C-kit)
11	bcl-2	3	Desmin
12	PC (plasma cell)= CD38	4	DOG1
13	CD68	5	Inhibin
14	Fascin	6	MIC2 (CD99)
15	CD43	7	MVM2
16	MPO	8	Myo D1
17	CD7	9	Myogenin
18	ALK	10	PLAP
19	CD10	11	SMA
20	CD23	12	Vimentin
21	TdT	D) Melanocytic markers	
22	CD19	1	HMB-45
23	Hairy cell (DBA44)	2	Melan-A
24	CD1a	3	S-100
25	PAX5	4	WT1
26	CD79α (mb1)	E) Endothelial & miscellaneous markers	
27	CD138	1	CD31
28	CD4	2	CD34
29	CD8	3	HHV-8
30	bcl-6	F) Neuroendocrine & neuron markers	
B) Epithelial Markers		1	Chromogranin A
1	Cytokeratin	2	Synaptophysin
2	EMA	3	Neurofilament
3	PSA	4	CD56
4	αFP	5	GFAP
5	Thyroglobulin	6	INI-1
6	CEA (Polyclonal)	7	NSE
7	HMWK (BE12)	G) Breast carcinoma markers (hormone receptor)	
8	CK20	1	ER
9	CK7	2	PR
10	CK5/6	3	P53
11	Calretinin	4	Her2/neu (C-erb-B2)
12	CDX2	5	Ki-67
13	TTF-1	6	GCDFP-15
14	Hepatocyte	7	CA125
15	GCDFP-15		