

**Medpace Central Laboratories
Validated Assays 2017**

Analyte	Aliases	Category / Therapeutic Area	Method	Sample Type(s)	Stability (Ambient)	Stability (2-8 C)	Stability (-20 C)	Stability (-70 C)
B-cell Activating Factor	BAFF	Auto Immune	EIA	EDTA Plasma	N/A	N/A	N/A	N/A
Alkaline Phosphatase, Bone	BAP, BSAP	Bone Marker	CLIA	Serum	Not Stable	Not Stable	6 Months	1 Year
Tartrate-resistant acid phosphatase isoform 5b	TRAP-5b	Bone Marker	ELISA	Serum	1 Day	3 days	1 Month	12 Months
Amino-Terminal Pro-Atrial Peptide	NT-ProANP	Cardiovascular	ELISA	Serum	3 Days	3 Days	1 Month	1 Month
Angiotensin-Like 3	ANGPTL3	Cardiovascular	EIA	Serum, EDTA Plasma	Not Stable	1 Week	10 Months	10 Months
Angiotensin-like 4	ANGPTL4	Cardiovascular	EIA	Serum	1 Week	2 Weeks	1 month (ongoing)	2 Weeks (ongoing)
Angiotensinogen, Plasma	AGT	Cardiovascular	ELISA	EDTA Plasma	1 Week	1 Week	1 Week (ongoing)	3 Days (ongoing)
B type Natriuretic Peptide	BNP	Cardiovascular	ECLIA	EDTA Plasma	1 Day	Not Stable	2 Months (Ongoing)	2 Months (Ongoing)
Creatine Kinase MB Isoenzyme	CK-MB	Cardiovascular	ECLIA	Serum	4 Hours	5 Days	3 Months	3 Months
Endothelin 1	ET-1	Cardiovascular	EIA	Serum	Not Stable	1 Week	1 Year	1 Year
Homocysteine		Cardiovascular	Enzymatic	Serum	4 Days	2 Weeks	2 Years	2 Years
Lipoprotein Lipase Mass	LPL Mass	Cardiovascular	EIA	Lithium Heparin Plasma	1 Week	3 Weeks	1 Month	8 Months
Matrix Metalloproteinase-3	MMP-3	Cardiovascular	EIA	Heparin Plasma; Serum	Not Stable	Not Stable	TBD	TBD
Matrix Metalloproteinase-9	MMP-9	Cardiovascular	EIA	Heparin Plasma; Serum	1 Week	2 Weeks	1 Month (ongoing)	1 Month (ongoing)
Monocyte Chemotactic Protein-1 (Blood)	CCL2, MCP-1	Cardiovascular	EIA	Serum	2 Weeks	2 Weeks	14 Months	14 Months
Monocyte Chemotactic Protein-1 (Urine)	CCL2, MCP-1	Cardiovascular	EIA	Urine	2 Weeks	2 Weeks	17 Months	17 Months
Myeloperoxidase	MPO	Cardiovascular	EIA	LiHe Plasma	1 Week	2 Weeks	3 Months (ongoing)	3 Months (ongoing)
Myoglobin (Blood)	MYO	Cardiovascular	ECLIA	Serum	Not Stable	1 Week	2 Weeks	12 Months
Myoglobin (Urine)	MYO	Cardiovascular	ECLIA	Serum	Not Stable	1 Week	2 Weeks (Ongoing)	1 Month (Ongoing)
Paraoxonase 1 Activity (PON1)	PON1	Cardiovascular	Kinetic	Serum	1 Week	2 Weeks	2 Months	1 Year
Pro BNP	NT-Pro BNP	Cardiovascular	ECLIA	Serum	3 Days	6 Days	2 Years	N/A
Resistin		Cardiovascular	Immunoassay	Serum	1 Day	3 Days	8 Months	11 Months
Secreted phospholipase A2 mass	sPLA2 Mass	Cardiovascular	EIA	Serum	2 Days	1 Week	7 Months	7 Months
Troponin I	TNI	Cardiovascular	ECLIA	EDTA Plasma; Serum	Not Stable	Not Stable	6 Months	6 Months
Troponin T, High Sensitivity	hs TNT	Cardiovascular	ECLIA	Serum	1 Week	2 Weeks	1 Year	1 Year
Anti Factor Xa Activity	LMWH, Low Molecular Weight Heparin	Coagulation	Clot Detection	3.2% Na Citrate Plasma	2 Hours	1 Day	8 Days	1 Year
D Dimer (Quantitative)		Coagulation	Turbidity	3.2% Na Citrate Plasma	4 Hours	2 Days	6 Months	1 Year
Factor IX Antigen	FIX:Ag	Coagulation	ELISA	3.2% Na Citrate Plasma	N/A	2 Weeks	1 Month	1 Month
Factor X		Coagulation	Colorimetry	3.2% Na Citrate Plasma	2 Weeks	2 Weeks	2 Weeks	1 Year
Factor X Antigen	FX:Ag	Coagulation	ELISA	3.2% Na Citrate Plasma	N/A	2 Weeks	2 Weeks	1 Month (ongoing)
Factor VIII Activity	FVIII:C	Coagulation	Chromogenic	Citrate Plasma	Not Stable	Not Stable	1 Month	12 Months
Factor VIII Antigen	FVIII:Ag	Coagulation	EIA	Na Citrate Plasma	3 Days	2 Weeks	1 Month	1 Month (Ongoing)
Factor VIII Antibody Screen	FVIII:Ab	Coagulation	ELISA	Na Citrate Plasma	Not Stable	8 Days	3 Years	3 Years
Fibrinogen		Coagulation	Nephelometry	EDTA Plasma	1 Week	1 Month	1 Year	N/A
Fibrinogen, Clauss		Coagulation	Clot Detection	Citrate Plasma	1 Week	2 Weeks	12 Months	12 Months
Heparin, Unfractionated	Anti Factor Xa Activity	Coagulation	Photometric	3.2% Na Citrate Plasma	2 Hours	1 Day	8 Days	1 Month
Partial Thromboplastin Time, Activated	APTT	Coagulation	Clot Detection	3.2% Na Citrate Plasma	1 Day	2 Days	6 Months	1 Year

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Plasminogen Activator Inhibitor Type 1 Activity	PAI-1 Activity	Coagulation	EIA	Citrate Plasma	Not Stable	Not Stable	N/A	6 Months
Plasminogen Activator Inhibitor Type 1 Antigen	PAI-1	Coagulation	EIA	Citrate Plasma; EDTA Plasma	Not Stable	Not Stable	1 Year	2 Years
Plasminogen Activity	BPLG	Coagulation	Colorimetry	3.2% Na Citrate Plasma	1 Week	2 Weeks	11 Months	11 Months
Prekallikrein	PK, PKK, Fletcher Factor	Coagulation	EIA	Serum	1 Week	2 Days	8 Months	8 Months
Prothrombin Fragments 1&2		Coagulation	EIA	Na Citrate Plasma	4 Hours	8 Hours	6 Weeks	16 Months
Prothrombin Time	PT	Coagulation	Clot Detection	3.2% Na Citrate Plasma	1 Day	2 Days	6 Months	1 Year
Prothrombin Time, International Normalized Ratio	INR	Coagulation	Clot Detection	3.2% Na Citrate Plasma	1 Day	2 Days	6 Months	1 Year
Russell's Viper Venom		Coagulation	Clot Detection	3.2% Na Citrate Plasma	4 Hours	N/A	1 Month	N/A
Thrombin Activatable Fibrinolysis Inhibitor	TAFI	Coagulation	Clot Detection	3.2% Na Citrate Plasma	Not Stable	2 Weeks	12 Months	12 Months
Thrombin Generation Assay	TGA	Coagulation	Fluorimunoassay	3.2% Na Citrate Plasma	Not Stable	Not Stable	2 Years	2 Years
Thrombin-Activatable Fibrinolysis Inhibitor Antigen	TAFI Ag	Coagulation	EIA	Citrate Plasma	1 Week	4 Weeks	12 Months	12 Months
Thromboxane, B2		Coagulation	EIA	Serum	1 Day	2 Weeks	6 Months	6 Months
Tissue -type Plasminogen Activator Antigen	TPA antigen	Coagulation	EIA	Citrate Plasma; EDTA Plasma	Not Stable	Not Stable	2 Weeks	6 Months
von Willebrand Factor	vWF:Ag	Coagulation	Immunoturbidity	Citrate Plasma	1 Week	3 Weeks	12 Months	12 Months
DNA Concentration		DNA	DNA Extraction	EDTA Whole Blood	48 Hours	28 Days	1 Year	2 Years
DNA Purity		DNA	DNA Extraction	EDTA Whole Blood	N/A	28 Days	1 Year	2 Years
DNA Yield		DNA	DNA Extraction	EDTA Whole Blood	N/A	28 Days	1 Year	2 Years
Drug Screen, Amphetamine and Methamphetamine	AMP, m-AMP	Drug	Immunochromatography	Urine	5 Days	2 Weeks	1 Year	1 Year
Drug Screen, Barbituates	BAR	Drug	Immunochromatography	Urine	5 Days	2 Weeks	1 Year	1 Year
Drug Screen, Benzodiazepine	BZO	Drug	Immunochromatography	Urine	5 Days	2 Weeks	1 Year	1 Year
Drug Screen, Bupreorphine		Drug	Immunochromatography	Urine	5 Days	2 Weeks	1 Year	1 Year
Drug Screen, Cocaine	COC	Drug	Immunochromatography	Urine	5 Days	2 Weeks	1 Year	1 Year
Drug Screen, Ecstasy		Drug	Immunochromatography	Urine	5 Days	2 Weeks	1 Year	1 Year
Drug Screen, Ethyl Alcohol	Ethanol	Drug	Immunochromatography	Serum	1 week	3 weeks	5 months	at least 6 months
Drug Screen, Ethyl Alcohol	Ethanol	Drug	Immunochromatography	Urine	2 days	1 week	1 week	at least 1 month (ongoing)
Drug Screen, Methadone	MTD	Drug	Immunochromatography	Urine	5 Days	2 Weeks	1 Year	1 Year
Drug Screen, Methaqualone		Drug	Immunochromatography	Urine	5 Days	2 Weeks	1 Year	1 Year
Drug Screen, Opiates	OPI	Drug	Immunochromatography	Urine	5 Days	2 Weeks	1 Year	1 Year
Drug Screen, Oxycodone		Drug	Immunochromatography	Urine	5 Days	2 Weeks	1 Year	1 Year
Drug Screen, Phencyclidine	PCP	Drug	Immunochromatography	Urine	5 Days	2 Weeks	1 Year	1 Year
Drug Screen, Propoxyphene	PPX	Drug	Immunochromatography	Urine	5 Days	2 Weeks	1 Year	1 Year
Drug Screen, TCA	TCA	Drug	Immunochromatography	Urine	5 Days	2 Weeks	1 Year	1 Year
Drug Screen, THC	THC; THC-OH; Marijuana	Drug	Immunochromatography	Urine	5 Days	2 Weeks	2 Months	N/A
1,5 Anhydroglucitol	Glycomark	Endocrinology and Diabetes	Enzymatic	Serum	7 Days	7 Days	36 Months	1 Year
Adiponectin		Endocrinology and Diabetes	EIA	EDTA Plasma; Serum	4 Days	1 Week	18 Months	18 Months
Adrenocorticotrophic Hormone	ACTH	Endocrinology and Diabetes	ECLIA	EDTA Plasma	2 Hours	4 Hours	4 Weeks	2 Years
Albumin, Glycated		Endocrinology and Diabetes	Photometric	Serum	1 Week	2 Weeks	2 Months	9 Months
Aldosterone		Endocrinology and Diabetes	CLIA	EDTA Plasma;Serum	1 Day	2 Weeks	12 Months	12 Months
Aldosterone, urine		Endocrinology and Diabetes	CLIA	urine	1 Week	2 Weeks	1 month (ongoing)	1 month (ongoing)

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Beta 2 Hydroxybutyrate	RANBUT	Endocrinology and Diabetes	Kinetic	EDTA Plasma; Heparin Plasma; Serum	1 Week	1 Week	4 Months	4 Months
C Peptide		Endocrinology and Diabetes	ECLIA	EDTA Plasma;Serum	2 Days	10 Days	7 Months	7 Months
Calcitonin		Endocrinology and Diabetes	ECLIA	Serum	4 Hours	1 Day	1 Year	1 Year
Chorionic Gonadotrophin	BHCG, Beta HCG, HCG	Endocrinology and Diabetes	ECLIA	Citrate Plasma; EDTA Plasma; Fluoride Plasma; Heparin Plasma; Serum	3 Days	3 Days	1 Year	1 Year
Cortisol (Blood)		Endocrinology and Diabetes	ECLIA	Serum, EDTA Plasma	2 Weeks	2 Weeks	3 Months	2 Years
Cortisol (Urine)		Endocrinology and Diabetes	ECLIA	Serum, EDTA Plasma	4 Days	2 Weeks	2 Weeks (Ongoing)	2 Weeks (Ongoing)
Cortisol, (Saliva)		Endocrinology and Diabetes	ECLIA	Saliva	2 Weeks	2 Weeks	1 Year	1 Year
Dehydroepiandrosterone Sulfate	DHEA-S	Endocrinology and Diabetes	ECLIA	Serum	2 Days	1 Week	2 Months	2 Months
Erythropoietin	Epo	Endocrinology and Diabetes	EIA	Serum	1 Week	2 Weeks	1 Year	1 Year
Estradiol	E2	Endocrinology and Diabetes	ECLIA	Serum	1 Week	1 Week	3 Months	2 Years
Folicle Stimulating Hormone	FSH	Endocrinology and Diabetes	ECLIA	Serum	2 Weeks	2 Weeks	6 Months	2 Years
Fructosamine		Endocrinology and Diabetes	Photometric	Serum	2 Weeks	2 Weeks	6 Months	1 Year
Gastric Inhibitory Polypeptide	GIP	Endocrinology and Diabetes	EIA	P800 Plasma	8 Days	8 Days	6 Months	6 Months
Ghrelin (Total)		Endocrinology and Diabetes	EIA	EDTA P800	1 Day	8 Days	9.5 Months	9.5 Months
Glucagon		Endocrinology and Diabetes	EIA	EDTA Plasma	3 Days	2 Weeks	10 Months	10 Months
Glucagon Like Peptide - 1, Active	GLP-1 Active	Endocrinology and Diabetes	EIA	EDTA P700 Tube	1 Week	1 Month	11 Months	11 Months
Glucagon Like Peptide - 1, Total	GLP-1 Total	Endocrinology and Diabetes	EIA	EDTA P700 Tube	1 Week	1 Month	11 Months	11 Months
Growth Hormone	GH	Endocrinology and Diabetes	CLIA	Serum	1 Week	2 Weeks	3 Weeks (ongoing)	3 Weeks (ongoing)
Hemoglobin A1c	HBA1c	Endocrinology and Diabetes	HPLC	EDTA Whole Blood; Fluoride Whole Blood	1 Week	2 Months	10 Days	1 Year
Insulin		Endocrinology and Diabetes	ECLIA	EDTA Plasma; Serum	1 Day	3 Weeks	6 Months	6 Months
Insulin-like Growth Factor - 1	IGF-1	Endocrinology and Diabetes	CLIA	Serum	1 Week	2 Weeks	12 Months	12 Months
Leptin		Endocrinology and Diabetes	EIA	Citrate Plasma; EDTA Plasma; Heparin Plasma; Serum	1 Week	3 Weeks	14 Months	14 Months
Luteinizing Hormone	LH	Endocrinology and Diabetes	ECLIA	Serum	2 Weeks	2 Weeks	3 Months	2 Years
Peptide YY	PYY	Endocrinology and Diabetes	EIA	EDTA P700 Tube	1 Week	1 Month	1 Year	1 Year
Progesterone		Endocrinology and Diabetes	ECLIA	Serum	1 Day	5 Days	6 Months	6 Months
Proinsulin		Endocrinology and Diabetes	EIA	EDTA Plasma; Heparin Plasma; Serum	1 Week	2 Weeks	16 Months	16 Months
Prolactin		Endocrinology and Diabetes	ECLIA	Serum	1 Day	2 Weeks	6 Months	6 Months
Retinol Binding Protein (Blood)	RBP4	Endocrinology and Diabetes	EIA	Serum	1 Week	2 Weeks	1 Year	1 Year
Retinol Binding Protein (Urine)	RBP4	Endocrinology and Diabetes	EIA	Urine	1 Day	2 Days	1 Month (ongoing)	1 Month (ongoing)
Sex Hormone Binding Globulin	SHBG	Endocrinology and Diabetes	ECLIA	Serum	1 Week	2 Weeks	2 Years	2 Years
Testosterone, Total		Endocrinology and Diabetes	ECLIA	Serum	2 Days	1 Week	6 Months	2 Years
Thyroid Stimulating Hormone	TSH	Endocrinology and Diabetes	ECLIA	Serum	1 Week	1 Month	1 Year	1 Year
Thyroxine, Free	FT4	Endocrinology and Diabetes	ECLIA	Serum	1 Week	1 Week	1 Month	3 Months
Thyroxine, Total	T4	Endocrinology and Diabetes	ECLIA	Serum	1 Week	1 Week	6 Months	6 Months
Triiodothyronine, Free T3	Free T3	Endocrinology and Diabetes	ECLIA	Serum	1 Week	1 Month	1 Year	1 Year
Triiodothyronine, T3	T3	Endocrinology and Diabetes	ECLIA	Serum	1 Week	1 Week	1 Week	1 Week

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Flow Cytometry, CD16/56	CD16/56	Flow Cytometry	Flow Cytometry	EDTA Whole Blood; Sodium Heparin Whole Blood; Streck Cytochex	Whole Blood: 1 Day, Streck Cytochex Blood Collection Tubes: 14 Days	Whole Blood: 2 Days Streck Cytochex Blood Collection Tubes: 14 Days	Not Stable	Not Stable
Flow Cytometry, CD19	CD19	Flow Cytometry	Flow Cytometry	EDTA Whole Blood; Sodium Heparin Whole Blood; Streck Cytochex	Whole Blood: 1 Day, Streck Cytochex Blood Collection Tubes: 14 Days	Whole Blood: 2 Days Streck Cytochex Blood Collection Tubes: 14 Days	Not Stable	Not Stable
Flow Cytometry, CD3	CD3	Flow Cytometry	Flow Cytometry	EDTA Whole Blood; Sodium Heparin Whole Blood; Streck Cytochex	Whole Blood: 1 Day, Streck Cytochex Blood Collection Tubes: 14 Days	Whole Blood: 2 Days Streck Cytochex Blood Collection Tubes: 14 Days	Not Stable	Not Stable
Flow Cytometry, CD4	CD4	Flow Cytometry	Flow Cytometry	EDTA Whole Blood; Sodium Heparin Whole Blood; Streck Cytochex	Whole Blood: 1 Day, Streck Cytochex Blood Collection Tubes: 14 Days	Whole Blood: 2 Days Streck Cytochex Blood Collection Tubes: 14 Days	Not Stable	Not Stable
Flow Cytometry, CD4/CD8 Ratio	CD4/CD8/TBANK	Flow Cytometry	Flow Cytometry	EDTA Whole Blood; Sodium Heparin Whole Blood; Streck Cytochex	Whole Blood: 1 Day, Streck Cytochex Blood Collection Tubes: 14 Days	Whole Blood: 2 Days Streck Cytochex Blood Collection Tubes: 14 Days	Not Stable	Not Stable
Flow Cytometry, CD45	CD45	Flow Cytometry	Flow Cytometry	EDTA Whole Blood; Sodium Heparin Whole Blood; Streck Cytochex	Whole Blood: 1 Day, Streck Cytochex Blood Collection Tubes: 14 Days	Whole Blood: 2 Days Streck Cytochex Blood Collection Tubes: 14 Days	Not Stable	Not Stable
Flow Cytometry, CD8	CD8	Flow Cytometry	Flow Cytometry	EDTA Whole Blood; Sodium Heparin Whole Blood; Streck Cytochex	Whole Blood: 1 Day, Streck Cytochex Blood Collection Tubes: 14 Days	Whole Blood: 2 Days Streck Cytochex Blood Collection Tubes: 14 Days	Not Stable	Not Stable
Collagen Type IV		Gastrointestinal	EIA	Serum, EDTA Plasma	8 Days	8 Days	2 Months (Ongoing)	4 Months (Ongoing)
Blood Smear Evaluation	Peripheral Blood Smear	Hematology	Manual	Blood Smear	N/A	N/A	Do not freeze	Do not freeze
CBC	Complete Blood Count	Hematology	N/A	EDTA Whole Blood	3 Days	3 Days	Do not freeze	Do not freeze
CBC, Hematocrit	HCT	Hematology	Instrument Calculated	EDTA Whole Blood	3 Days	3 Days	Do not freeze	Do not freeze
CBC, Hemoglobin	HB, HGB	Hematology	Photometric	EDTA Whole Blood	3 Days	3 Days	Do not freeze	Do not freeze
CBC, Mean Corpuscular Hgb	MCH	Hematology	Instrument Calculated	EDTA Whole Blood	3 Days	3 Days	Do not freeze	Do not freeze
CBC, Mean Corpuscular Hgb Concentration	MCHC	Hematology	Instrument Calculated	EDTA Whole Blood	3 Days	3 Days	Do not freeze	Do not freeze
CBC, Mean Corpuscular Volume	MCV	Hematology	Electronic Impedance	EDTA Whole Blood	3 Days	3 Days	Do not freeze	Do not freeze
CBC, Mean Platelet Volume	MPV	Hematology	Electronic Impedance	EDTA Whole Blood	3 Days	3 Days	Do not freeze	Do not freeze
CBC, Platelet Count	PLT	Hematology	Electronic Impedance	EDTA Whole Blood	3 Days	3 Days	Do not freeze	Do not freeze
CBC, RBC Count	RBC	Hematology	Electronic Impedance	EDTA Whole Blood	3 Days	3 Days	Do not freeze	Do not freeze
CBC, Red Cell Distribution Width	RDW	Hematology	Electronic Impedance	EDTA Whole Blood	3 Days	3 Days	Do not freeze	Do not freeze
CBC, WBC Count	WBC	Hematology	Electronic Impedance	EDTA Whole Blood	3 Days	3 Days	Do not freeze	Do not freeze

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Reticulocyte Count	Retic	Hematology	VCS	EDTA Whole Blood	3 Days	3 Days	Do not freeze	Do not freeze
Sickle Cells Screening	SCS, Hemoglobin S	Hematology	Turbidity	EDTA Whole Blood	15 Days	45 Days	Do not freeze	Do not freeze
WBC Differential, Basophils		Hematology	VCS	EDTA Whole Blood	3 Days	3 Days	Do not freeze	Do not freeze
WBC Differential, Eosinophils		Hematology	VCS	EDTA Whole Blood	3 Days	3 Days	Do not freeze	Do not freeze
WBC Differential, Leucocytes		Hematology	VCS	EDTA Whole Blood	3 Days	3 Days	Do not freeze	Do not freeze
WBC Differential, Monocytes		Hematology	VCS	EDTA Whole Blood	3 Days	3 Days	Do not freeze	Do not freeze
WBC Differential, Neutrophils, Bands	Bands	Hematology	Manual	EDTA Whole Blood	3 Days	3 Days	Do not freeze	Do not freeze
WBC Differential, Neutrophils, Segmented	Segs	Hematology	VCS	EDTA Whole Blood	3 Days	3 Days	Do not freeze	Do not freeze
WBC Differential, Neutrophils, Total		Hematology	VCS	EDTA Whole Blood	3 Days	3 Days	Do not freeze	Do not freeze
Cytomegalovirus, IgG	CMV IgG	Infectious Disease	ECLIA	Serum	1 Week	1 Month	6 Months	N/A
Cytomegalovirus, IgM	CMV IgM	Infectious Disease	ECLIA	Serum	1 Week	1 Month	3 Months	N/A
Hepatitis A Virus Antibody, IgM	Anti HAV IgM	Infectious Disease	ECLIA	Serum	N/A	1 Week	6 Months	N/A
Hepatitis A Virus Antibody, Total	Anti HAV	Infectious Disease	ECLIA	Serum	N/A	1 Week	3 Months	N/A
Hepatitis B core Antibody, IgM	Anti HBc IgM	Infectious Disease	ECLIA	Serum	N/A	6 Days	3 Months	N/A
Hepatitis B core Antibody, Total	Anti HBc Total	Infectious Disease	ECLIA	Serum	7 Days	2 Weeks	3 Months	3 Months
Hepatitis B DNA	HBV DNA	Infectious Disease	RT-PCR	EDTA Plasma; Serum	1 Day	3 Days	1 Year	1 Year
Hepatitis B Surface Antibody	HBs Ab	Infectious Disease	ECLIA	Serum	3 Days	6 Days	3 Months	3 Months
Hepatitis B Surface Antigen (Qualitative)	HBs Ag	Infectious Disease	ECLIA	Serum	1 Week	1 Week	1 Year	1 Year
Hepatitis B Surface Antigen (Quantitative)	HBs Ag	Infectious Disease	ECLIA	Serum	1 Week	2 Weeks	6 Months	6 Months
Hepatitis B Surface Antigen Confirmatory (Qualitative)	HBs Ag Confirmatory	Infectious Disease	ECLIA	Serum	1 Week	1 Week	3 Months	3 Months
Hepatitis Be Antibody	Anti HBe	Infectious Disease	ECLIA	Serum	N/A	5 Days	3 Months	3 Months
Hepatitis Be Antigen (Qualitative)	HBeAg	Infectious Disease	ECLIA	Serum	N/A	7 Days	3 Months	3 Months
Hepatitis Be Antigen (Quantitative)	HBeAg	Infectious Disease	ECLIA	Serum	N/A	7 Days	3 Months	3 Months
Hepatitis C Virus Antibody	Anti HCV	Infectious Disease	ECLIA	Serum	3 Days	3 Weeks	3 Months	3 Months
Hepatitis C Virus RNA Qual	HCV RNA Qual	Infectious Disease	RT-PCR	EDTA Plasma; Serum	1 Day	3 Days	2 Months	2 Months
Hepatitis C Virus RNA, Quant	HCV RNA Quant	Infectious Disease	RT-PCR	EDTA Plasma; Serum	1 Day	3 Days	2 Months	2 Months
Hepatitis D Virus Antibody	Anti HDV	Infectious Disease	EIA	Serum	<24 Hours	<24 Hours	3 Weeks	2 Months
Hepcidin-25		Infectious Disease	EIA	Serum	2 Days	1 Week	3 Months	8 Months
Human Immunodeficiency Virus 1 & 2 p24	HIV	Infectious Disease	ECLIA	Serum	7 Days	4 Weeks	3 Months	3 Months
Procalcitonin	PCT	Infectious Disease	Immunochemiluminiscence	Serum and EDTA Plasma	24 Hours	24 Hours	6 Months	2 Years
Quantiferon TB Interferon Gamma	QFT	Infectious Disease	EIA	Heparin Plasma in QFT blood collection tubes	3 Days	28 Days	4 Months	4 Months
Syphilis	RPR	Infectious Disease	APR Test Card	Serum	4 Hours	5 Days	4 Weeks	4 Weeks
Alpha 2 Macroglobulin	A2 Macro	Inflammation and Immunology	Nephelometry	Serum	1 Week	2 Weeks	1 Month	1 Month
Amyloid A	SAA	Inflammation and Immunology	Nephelometry	Heparin Plasma; Serum	Not Stable	8 Days	3 Months	3 Months
Anti Nuclear Antibodies, Screen	ANA	Inflammation and Immunology	Immunoassay	EDTA Plasma; Serum	2 Days	1 Week	12 Months	12 Months
C Reactive Protein, High Sensitivity	hsCRP	Inflammation and Immunology	Nephelometry	Serum	1 Week	1 Month	27 Months	27 Months
C Reactive Protein, Ultra Sensitivity		Inflammation and Immunology	Nephelometry	Serum	1 Week	1 Month	27 Months	27 Months
Calprotectin		Inflammation and Immunology	EIA	EDTA Plasma	Not Stable	Not Stable	TBD	TBD
Calprotectin, fecal		Inflammation and Immunology	CLIA	feces	Not Stable	3 Days	4 Months	N/A
Cardiolipin Antibody, IgA	Cardiolipin IgA	Inflammation and Immunology	Immunoassay	EDTA Plasma; Serum	8 Hours	2 Days	12 Months	12 Months
Cardiolipin Antibody, IgG	Cardiolipin IgG	Inflammation and Immunology	Immunoassay	EDTA Plasma; Serum	8 Hours	2 Days	12 Months	12 Months

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Cardiolipin Antibody, IgM	Cardiolipin IgM	Inflammation and Immunology	Immunoassay	EDTA Plasma;Serum	8 Hours	2 Days	12 Months	12 Months
CD40 Ligand	sCD40	Inflammation and Immunology	EIA	EDTA Plasma; Heparin Plasma; Serum	Not Stable	Not Stable	N/A	18 Months
Complement Bb	Bb Fragment	Inflammation and Immunology	EIA	EDTA Plasma; Serum	3 Days	3 Days	9 Months	15 Months
Complement C3	C3	Inflammation and Immunology	Nephelometry	EDTA Plasma; Serum	Not Stable	1 Week	4 Months	4 Months, (Plasma 18 Months)
Complement C4	C4	Inflammation and Immunology	Nephelometry	EDTA Plasma; Serum	3 Days	4 Days	3.5 Months	12 Months
Complement C4a	C4a	Inflammation and Immunology	EIA	EDTA Plasma	Not Stable	Not Stable	Not Stable	6 Months
Complement C5a	C5a	Inflammation and Immunology	EIA	EDTA Plasma	2 Weeks	2 Weeks	10 Months	15 Months
CYFRA 21-1		Inflammation and Immunology	ECLIA	Serum, Plasma	4 Days	4 Days	12 months	12 Months
Double Stranded DNA, IgG	dsDNA	Inflammation and Immunology	Immunoassay	Serum, EDTA Plasma	2 Days	1 Week	12 months	12 months
Double Stranded DNA, IgG	dsDNA	Inflammation and Immunology	EIA	Serum	2 Days	1 Week	1 Week	1 Week
Enhanced Liver Fibrosis Score	ELF	Inflammation and Immunology	Immunochemiluminiscence	Serum	4 Days	1 Month	11 Months	12 Months
E-Selectin, Soluble	sE-Selectin	Inflammation and Immunology	EIA	EDTA Plasma	N/A	N/A	N/A	N/A
Fibroblast Activation Protein	FAP	Inflammation and Immunology	EIA	EDTA Plasma	1 Week	1 Week	3 Weeks (Ongoing)	3 Weeks (Ongoing)
Haptoglobin		Inflammation and Immunology	Nephelometry	Serum	1 Week	3 Weeks	1 Month	1 Month
Heparin Binding Epidermal Growth Factor, Ascites	HB-EGF	Inflammation and Immunology	EIA	Cell Culture; EDTA Plasma;Serum;Urine	1 Week	1 Week	18 Months	18 Months
Heparin Binding Epidermal Growth Factor, Bound	HB-EGF	Inflammation and Immunology	EIA	Cell Culture; EDTA Plasma; Serum; Urine	1 Week	1 Week	18 Months	18 Months
Heparin Binding Epidermal Growth Factor, Total	HB-EGF	Inflammation and Immunology	EIA	Cell Culture; EDTA Plasma; Serum; Urine	1 Week	1 Week	18 Months	18 Months
Hepatocyte Growth Factor	HGF	Inflammation and Immunology	EIA	Serum	1 Week	1 Week	15 Months	15 Months
Hyaluronic Acid	HA	Inflammation and Immunology	Immunochemiluminiscence	Serum	1 Week	1 Month	11 Months	12 Months
Immunoglobulin A	IgA	Inflammation and Immunology	Nephelometry	Serum	1 Week	2 Weeks	11 Months	11 Months
Immunoglobulin D	IgD	Inflammation and Immunology	Nephelometry	Serum	1 Week	1 Week	18 Months	18 Months
Immunoglobulin E	IgE	Inflammation and Immunology	Nephelometry	Serum	1 Week	2 Weeks	11 Months	11 Months
Immunoglobulin G	IgG	Inflammation and Immunology	Nephelometry	Serum	1 Week	1 Week	11 Months	11 Months
Immunoglobulin G, Urine	IgG, Urine	Inflammation and Immunology	Nephelometry	Urine	3 Days	2 Weeks	3 Days	1 Week
Immunoglobulin M	IgM	Inflammation and Immunology	Nephelometry	Serum	1 Week	2 Weeks	11 Months	11 Months
Intercellular Adhesion Molecule 1	ICAM-1, sICAM-1	Inflammation and Immunology	EIA	EDTA Plasma	N/A	N/A	N/A	N/A
Interferon gamma, Mesoscale Proinflammatory V-Plex	IFNgamma, IFN γ	Inflammation and Immunology	Multiplex Immunoassay	Serum, EDTA Plasma	3 Days	2 Weeks	10 Months	10 Months
Interleukin-10 Mesoscale Multiplex	IL-10	Inflammation and Immunology	Multiplex Immunoassay	Serum	1 Week	3 Weeks	1 Year	1 Year
Interleukin-10, Mesoscale Proinflammatory V-Plex	IL-10	Inflammation and Immunology	Multiplex Immunoassay	Serum, EDTA Plasma	3 Days	3 Days	10 Months	10 Months
Interleukin-12p70, Mesoscale Proinflammatory V-Plex	IL-12p70	Inflammation and Immunology	Multiplex Immunoassay	Serum, EDTA Plasma	Serum: 3 Days EDTA-plasma: 1 Week	Serum: 3 Days EDTA-plasma: 2 Weeks	10 Months	10 Months
Interleukin-13, Mesoscale Proinflammatory V-Plex	IL-13	Inflammation and Immunology	Multiplex Immunoassay	Serum, EDTA Plasma	Serum: 1 Day EDTA-plasma: 3 Days	Serum: 1 Day EDTA-plasma: 3 Days	10 Months	10 Months
Interleukin-1 β Mesoscale Multiplex	IL-1 β	Inflammation and Immunology	Multiplex Immunoassay	Serum	3 Days	3 Days	1 Year	1 Year

**Medpace Central Laboratories
Validated Assays 2017**

Analyte	Aliases	Category / Therapeutic Area	Method	Sample Type(s)	Stability (Ambient)	Stability (2-8 C)	Stability (-20 C)	Stability (-70 C)
Interleukin-2, Mesoscale Proinflammatory V-Plex	IL-2	Inflammation and Immunology	Multiplex Immunoassay	Serum, EDTA Plasma	Serum: 7 Days EDTA-plasma: Not Stable	2 Weeks	8 Months	10 Months
Interleukin-22	IL-22	Inflammation and Immunology	EIA	EDTA Plasma; Heparin Plasma; Serum	Not Stable	Not Stable	TBD	TBD
Interleukin-4, Mesoscale Proinflammatory V-Plex	IL-4	Inflammation and Immunology	Multiplex Immunoassay	Serum, EDTA Plasma	Serum: 1 Day EDTA-plasma: 3 Days	Serum: 2 Weeks EDTA-plasma: 3 Days	Serum: 10 Months EDTA-plasma: 9 Months	Serum: 6 Months EDTA-plasma: 10 Months
Interleukin-6	IL-6	Inflammation and Immunology	EIA	Serum	1 Week	3 Weeks	13.5 Months	13.5 Months
Interleukin-6 High Sensitivity	hsIL-6	Inflammation and Immunology	EIA	Serum	1 Week	2 Weeks	1 Year	1 Year
Interleukin-6 Mesoscale Multiplex	IL-6	Inflammation and Immunology	Multiplex Immunoassay	Serum	1 Week	2 Weeks	1 Year	1 Year
Interleukin-6, Mesoscale Proinflammatory V-Plex	IL-6	Inflammation and Immunology	Multiplex Immunoassay	Serum, EDTA Plasma	7 Days	2 Weeks	10 Months	10 Months
Interleukin-8, Mesoscale Proinflammatory V-Plex	IL-8	Inflammation and Immunology	Multiplex Immunoassay	Serum, EDTA Plasma	7 Days	2 Weeks	10 Months	10 Months
Lupus Anticoagulant		Inflammation and Immunology	Clot Detection	3.2% Na Citrate Plasma	4 Hours	N/A	2 Weeks	6 Months
Macrophage Inflammatory Protein, alpha	MIP, alpha	Inflammation and Immunology	EIA	Serum	1 Week	2 Weeks	1 Year	1 Year
Macrophage Inhibitory Cytokine 1	MIC-1, GDF-15	Inflammation and Immunology	EIA	Serum	1 Week	3 Weeks	11 Weeks	11 Weeks
Procollagen III Peptide	PIIINP, P3NP	Inflammation and Immunology	Immunochemiluminiscence	Serum	4 Days	1 Month	12 Months	12 Months
Proteinase 3	PR3	Inflammation and Immunology	EIA	EDTA Plasma	N/A	N/A	N/A	N/A
P-Selectin, Soluble	P-Selectin	Inflammation and Immunology	EIA	Citrate Plasma; EDTA Plasma; Serum	1 Week	2 Weeks	17 Months	17 Months
Tissue Inhibitor of Metalloproteinase 1	TIMP1	Inflammation and Immunology	Immunochemiluminiscence	Serum	1 Week	1 Month	12 Months	12 Months
Transthyretin	Prealbumin	Inflammation and Immunology	Nephelometry	Serum	4 Days	3 Weeks	1 Year	1 Year
Tryptase		Inflammation and Immunology	Fluorescence Immunoassay	Serum, EDTA Plasma	1 Week	2 Weeks	5 Months (Ongoing)	5 Months (Ongoing)
Tumor Necrosis Factor-alpha	TNF-alpha	Inflammation and Immunology	EIA	Serum	Not Stable	Not Stable	14 Months	14 Months
Tumor Necrosis Factor-alpha Mesoscale Proinflammatory V-Plex	TNFalpha, TNFα	Inflammation and Immunology	Multiplex Immunoassay	Serum, EDTA Plasma	1 Day	1 Day	10 Months	10 Months
Apolipoprotein AI	Apo AI	Lipid and Lipoprotein Metabolism	Nephelometry	EDTA Plasma;Serum	3 Weeks	3 Months	1 Year	2 Years
Apolipoprotein AII	Apo AII	Lipid and Lipoprotein Metabolism	Nephelometry	EDTA Plasma;Serum	7 days	7 Days	3 Months	6 Months
Apolipoprotein AV	Apo AV	Lipid and Lipoprotein Metabolism	EIA	Serum	3 Days	1 Week	11 Months	11 Months
Apolipoprotein B, Total	Apo B	Lipid and Lipoprotein Metabolism	Nephelometry	EDTA Plasma;Serum	3 Weeks	3 Months	1 Year	2 Years
Apolipoprotein B-48	Apo B-48	Lipid and Lipoprotein Metabolism	EIA	EDTA Plasma;Serum	1 Week	3 Weeks	3 Months	1 Year

**Medpace Central Laboratories
Validated Assays 2017**

Analyte	Aliases	Category / Therapeutic Area	Method	Sample Type(s)	Stability (Ambient)	Stability (2-8 C)	Stability (-20 C)	Stability (-70 C)
Apolipoprotein CII	Apo CII	Lipid and Lipoprotein Metabolism	Immunoturbidity	EDTA Plasma;Serum	3 Days	1 Week	10 Months	10 Months
Apolipoprotein CIII	Apo CIII	Lipid and Lipoprotein Metabolism	Immunoturbidity	EDTA Plasma;Serum	3 Days	1 Month	1 Year	1 Year
Apolipoprotein E	Apo E	Lipid and Lipoprotein Metabolism	Nephelometry	EDTA Plasma;Serum	3 Days	1 Week	1 Year	1 Year
Cholesterol Ester Transfer Protein Activity	CETP Activity	Lipid and Lipoprotein Metabolism	Fluorimmunoassay	EDTA Plasma	Not Stable	Not Stable	6 Weeks	6 Weeks
Cholesterol Ester Transfer Protein Activity, EVAK	CETP Activity	Lipid and Lipoprotein Metabolism	Fluorimmunoassay	EDTA Plasma	Not Stable	2 Weeks	11 Months	12 Months
Cholesterol Ester Transfer Protein Mass	CETP Mass	Lipid and Lipoprotein Metabolism	EIA	EDTA Plasma	1 Week	2 Weeks	12 Months	12 Months
Cholesterol, Free		Lipid and Lipoprotein Metabolism	Photometric	Serum	2 Days	2 Weeks	10 Months (Ongoing)	10 Months (Ongoing)
Cholesterol, High Density Lipoprotein (Direct)	HDL-C	Lipid and Lipoprotein Metabolism	Enzymatic	Serum	3 Days	1 Month	1 Year	1 Year
Cholesterol, High Density Lipoprotein (Precipitation)	HDL-C	Lipid and Lipoprotein Metabolism	Precipitation	Serum	3 Days	1 Month	1 Year	1 Year
Cholesterol, High Density Lipoprotein Subfractions (Precipitation)	HDL subfractions, HDL2, HDL3	Lipid and Lipoprotein Metabolism	Precipitation	Serum	N/A	2 Days	N/A	N/A
Cholesterol, High Density Lipoprotein Subfractions (Ultracentrifugation)	HDL subfractions, HDL2, HDL3	Lipid and Lipoprotein Metabolism	Ultracentrifugation	EDTA Plasma;Serum	3 Weeks	2 Months	2 Months	1 Year
Cholesterol, Intermediate Density Lipoprotein (Ultracentrifugation)	IDL	Lipid and Lipoprotein Metabolism	Ultracentrifugation	EDTA Plasma;Serum	3 Days	1 Month	1 Year	1 Year
Cholesterol, Low Density Lipoprotein (Direct)	LDL-C	Lipid and Lipoprotein Metabolism	Enzymatic	Serum	4 Days	2 Weeks	Not Stable	Not Stable
Cholesterol, Low Density Lipoprotein (Friedewald Calculation)	LDL-C	Lipid and Lipoprotein Metabolism	Calculation	Calculation	N/A	N/A	N/A	N/A
Cholesterol, Low Density Lipoprotein (Ultracentrifugation)	LDL-C, Beta Quant, BQ LDL	Lipid and Lipoprotein Metabolism	Ultracentrifugation	EDTA Plasma, Serum	3 Days	1 Month	1 Year	1 Year
Cholesterol, Total		Lipid and Lipoprotein Metabolism	Photometric	Serum	3 Days	1 Month	1 Year	1 Year
Cholesterol, Very Low Density Lipoprotein (Ultracentrifugation)	VLDL-C, Beta Quant, BQ VLDL	Lipid and Lipoprotein Metabolism	Ultracentrifugation	EDTA Plasma;Serum	3 Days	1 Month	1 Year	1 Year
Chylomicron (Ultracentrifugation)	Chylos, CM (CM_Chol, CM_Trig, CM_PhosLip)	Lipid and Lipoprotein Metabolism	Ultracentrifugation	EDTA Plasma;Serum	Not Stable	4 Days	Do not freeze	Do not freeze
Fatty Acids, Free	NEFA, FFA	Lipid and Lipoprotein Metabolism	Colorimetry	Na Citrate Plasma; EDTA Plasma; Serum	Not Stable	1 Week	12 Months	12 Months
Glycerol, Free		Lipid and Lipoprotein Metabolism	Photometric	Serum	Not Stable	4 Days	1 Year	1 Year
Lipoprotein (a), Beckman Coulter	Lp(a) (molar)	Lipid and Lipoprotein Metabolism	Immunoturbidity	Serum	2 Weeks	2 Months	1 Year	1 Year
Lipoprotein (a), Siemens BNII	Lp(a) (mass)	Lipid and Lipoprotein Metabolism	Nephelometry	EDTA Plasma; Heparin Plasma; Serum	2 Weeks	2 Months	2 Years	2 Years
Lipoprotein-associated phospholipase A2, Activity	Lp-PLA2 Activity	Lipid and Lipoprotein Metabolism	Photometric	EDTA Plasma; Serum	8 Hours	2 Weeks	18 Months	2.5 Years

**Medpace Central Laboratories
Validated Assays 2017**

Analyte	Aliases	Category / Therapeutic Area	Method	Sample Type(s)	Stability (Ambient)	Stability (2-8 C)	Stability (-20 C)	Stability (-70 C)
Lipoprotein-associated phospholipase A2, Mass	Lp-PLA2 Mass	Lipid and Lipoprotein Metabolism	EIA	EDTA Plasma; Serum	<24 Hours	1 Week	N/A	12 Months (ongoing)
Oxidized LDL	oxLDL	Lipid and Lipoprotein Metabolism	EIA	EDTA Plasma; Heparin Plasma; Serum	1 Week	2 Weeks	11 Months	11 Months
Phospholipids		Lipid and Lipoprotein Metabolism	Enzymatic	Serum	2 Weeks	1 Month	10 Months (Ongoing)	10 Months (Ongoing)
Pre Beta 1 HDL	Pre-beta1-HDL	Lipid and Lipoprotein Metabolism	EIA	EDTA Plasma w Stabilizer	Not Stable	1 Week	at least 3 Months (ongoing)	at least 3 Months (ongoing)
Proprotein convertase subtilisin kexin 9	PCSK9	Lipid and Lipoprotein Metabolism	EIA	Serum	1 Week	1 Month	N/A	28 Months
Proprotein convertase subtilisin kexin 9	PCSK9	Lipid and Lipoprotein Metabolism	EIA	EDTA Plasma	1 Month	2 Months	2 Months	1 Year
Retinyl Palmitate		Lipid and Lipoprotein Metabolism	UPLC	EDTA Plasma; Serum	5 Days	1 Month	4 Months	1 Year
Triglyceride	Trig	Lipid and Lipoprotein Metabolism	Colorimetry	Serum	3 Days	3 Weeks	2 Years	2 Years
Alanine Aminotransferase	ALT, SGPT	Metabolic	Kinetic	Serum	3 Days	1 Week	3 Days	1 Year
Albumin (Blood)		Metabolic	Endpoint Photometric	Serum	7 Days	1 Month	6 Months	6 Months
Alkaline Phosphatase	ALP	Metabolic	Kinetic	Serum	1 Week	1 Week	3 Months	1 Year
Amylase (Blood)	Alpha Amylase	Metabolic	Enzymatic	Serum	1 Week	1 Month	1 Year	1 Year
Anion Gap		Metabolic	Calculation	Calculation	N/A	N/A	N/A	N/A
Aspartate Amino Transferase	AST, SGOT	Metabolic	Kinetic	Serum	3 Days	2 Weeks	3 Months	1 Year
Bicarbonate, Total	CO2	Metabolic	Photometric	Serum	3 Days	1 Week	1 Year	1 Year
Bile Acids, Total		Metabolic	Enzymatic Cycling	Serum	1 Week	2 Weeks	1 Year	1 Year
Bilirubin, Direct	Conjugated Bilirubin	Metabolic	Photometric	Serum	2 Days	1 Week	1 Month	6 Months
Bilirubin, Indirect	Unconjugated Bilirubin	Metabolic	Calculation	Calculation	N/A	N/A	N/A	N/A
Bilirubin, Total		Metabolic	Photometric	Serum	2 Days	1 Week	1 Month	6 Months
Calcium (Blood)		Metabolic	Photometric	Serum	1 Week	2 Weeks	2 Years	1 Year
Calcium (Urine)		Metabolic	Photometric	Urine	1 Week	1 Week	1 Year	1 Year
Caspase 3/7		Metabolic	Luminescence	Serum	Not Stable	2 Weeks	1 Year	1 Year
Caspase 8		Metabolic	Luminescence	Serum	Not Stable	1 Day	9 Months	N/A
Chloride (Blood)	CL	Metabolic	ISE	Serum	1 Week	1 Week	1 Year	1 Year
Chloride (Urine)	CL	Metabolic	ISE	Urine	1 Week	2 Weeks	12 Months	12 Months
Creatine Kinase	CK, CPK	Metabolic	Kinetic	Serum	10 Days	1 Month	1 Month	1 Year
Creatinine (Blood)		Metabolic	Jaffe	Serum	1 Month	2 Months	1 Year	1 Year
Creatinine (Enzymatic)		Metabolic	Enzymatic Colorimetric	Serum	8 days	17 days	1 month (ongoing)	1 month (ongoing)
Creatinine Clearance		Metabolic	Calculation	Calculation	N/A	N/A	N/A	N/A
Cytochrome C		Metabolic	EIA	Serum	1 Week	1 Week	19 Months	19 Months
Ferritin		Metabolic	ECLIA	Serum	1 Week	1 Week	1 Year	1 Year
Fibroblast Growth Factor 19	FGF19	Metabolic	EIA	Serum, EDTA Plasma	1 Week	3 Weeks	12 Months	12 Months
Gamma Glutamyl Transferase	GGT	Metabolic	Kinetic	Serum	3 Weeks	3 Months	1 Year	1 Year
Globulin		Metabolic	Calculation	Calculation	N/A	N/A	N/A	N/A
Glucose (Blood)		Metabolic	Photometric	Serum	2 Weeks	2 Weeks	1 Year	1 Year
Glucose (Urine)		Metabolic	Photometric	Urine	5 Days	2 Weeks	1 Year	1 Year
Glutamate Dehydrogenase	GLDH	Metabolic	Photometric	Serum	2 days	2 Weeks	1 Month	2 Months (ongoing)
Iron		Metabolic	Photometric	Serum	1 Week	3 Weeks	1 Year	1 Year
Iron Binding Capacity, Total	TIBC	Metabolic	Calculation	Calculation	N/A	N/A	N/A	N/A

**Medpace Central Laboratories
Validated Assays 2017**

Analyte	Aliases	Category / Therapeutic Area	Method	Sample Type(s)	Stability (Ambient)	Stability (2-8 C)	Stability (-20 C)	Stability (-70 C)
Iron Binding Capacity, Unsaturated	UIBC	Metabolic	Photometric	Serum	1 Week	5 Days	1 Year	1 Year
Lactate		Metabolic	Enzymatic	Fluoride Plasma	2 Hours	2 Weeks	1 Year	1 Year
Lactate Dehydrogenase	LDH	Metabolic	Enzymatic	Serum	2 Weeks	2 Weeks	1 Month	1 Year
Lipase		Metabolic	Enzymatic	Serum	1 Week	2 Weeks	1 Year	1 Year
Magnesium (Blood)	Mg	Metabolic	Endpoint Photometric	Serum	2 Weeks	2 Weeks	1 Year	1 Year
Magnesium (Urine)	Mg	Metabolic	Endpoint Photometric	Urine	1 Week	2 Weeks	1 Year	1 Year
Phosphorous (Blood)		Metabolic	Endpoint Photometric	Serum	2 Days	3 Days	1 Year	1 Year
Phosphorous (Urine)		Metabolic	Endpoint Photometric	Urine	1 Week	2 Weeks	1 Year	1 Year
Potassium (Blood)	K	Metabolic	ISE	Serum	3 Weeks	3 Weeks	1 Year	1 Year
Potassium (Urine)	K	Metabolic	ISE	Urine	1 Week	2 Weeks	1 Year	1 Year
Prealbumin	Transthyretin, TTR	Metabolic	EIA	Serum	4 Days	3 Weeks	10 Months (ongoing)	10 Months (ongoing)
Proprotein convertase subtilisin kexin 9	PCSK9	Metabolic	EIA	EDTA Plasma, Serum	1 Week	1 Month	2 Months	1 Year
Protein (Blood)		Metabolic	Colorimetry	Heparin Plasma; Serum	2 Weeks	1 Month	1 Year	1 Year
Protein (Urine)		Metabolic	Colorimetry	Urine	1 Week	6 Months	6 Months	6 Months
Sodium (Blood)	Na	Metabolic	ISE	Lithium Heparin Plasma; Serum	1 Week	1 Week	1 Year	1 Year
Sodium (Urine)	Na	Metabolic	ISE	Urine	1 Week	2 Weeks	1 Year	1 Year
Transferrin		Metabolic	Turbidity	Serum	2 Weeks	2 Weeks	1 Year	1 Year
Transferrin, receptor, soluble	sTfR	Metabolic	Nephelometry	Serum	1 Week	1 Week	1 Month (ongoing)	1 Month (ongoing)
Urea Nitrogen (Blood)	BUN	Metabolic	Kinetic	Serum	5 Days	2 Weeks	1 Year	1 Year
Urea Nitrogen (Urine)		Metabolic	Colorimetry	Urine	1 Week	2 Weeks	1 Month (ongoing)	1 Month (ongoing)
Uric Acid (Blood)	UA	Metabolic	Colorimetry	Serum	1 Week	1 Week	1 Year	1 Year
Uric Acid (Urine)		Metabolic	Colorimetry	Urine	1 Week	1 Week	3 Days (ongoing)	1 Month (ongoing)
Aldolase	ALD	Musculoskeletal	Colorimetry	Serum	2 Days	2 Weeks	3 Months (Ongoing)	3 Months (Ongoing)
Deoxyribonucleotides	DPD	Musculoskeletal	EIA	Urine	1 Week	3 Weeks	1 Year	1 Year
Osteocalcin		Musculoskeletal	ECLIA	Serum	8 Hours	3 Days	3 Months	2 Years
Parathyroid Hormone, 1-34	PTH 1-34	Musculoskeletal	EIA	EDTA Plasma	1 Day	1 Day	17 Months	17 Months
Parathyroid Hormone, Intact	PTH	Musculoskeletal	ECLIA	Serum	Not Stable	8 Days	1 Year	1 Year
Procollagen Type 1 C-terminal Propeptide	P1CP/CICP	Musculoskeletal	EIA	Serum	1 Week	2 Weeks	12 Months	12 Months
Procollagen Type 1 N-terminal Propeptide	P1NP	Musculoskeletal	ECLIA	Serum	1 Week	1 Month	1 Year	1 Year
Telopeptide C Terminal, Type 1 Collagen	Beta Crosslaps, Beta-CTX	Musculoskeletal	ECLIA	EDTA Plasma; Heparin Plasma; Serum	6 Hours	8 Hours	1 Year	1 Year
Vitamin D, 25 OH		Musculoskeletal	ECLIA	Serum	1 Week	2 Weeks	1 Year	1 Year
Albumin (Urine)	Microalbumin	Nephrology	Nephelometry	Urine	7 Days	2 Weeks	1 Month	8 Months
Beta 2 Microglobulin (Blood)		Nephrology	Nephelometry	Serum	2 Weeks	3 Weeks	1 Year	1 Year
Beta 2 Microglobulin (Urine)		Nephrology	Nephelometry	Urine	Not Stable	2 Days	2 Months	N/A
Beta 2 Microglobulin High Sensitivity (Urine)		Nephrology	Nephelometry	Urine	3 Days	3 Days	2 Months	2 Months
Creatinine (Urine)		Nephrology	Jaffe	Urine	1 Week	1 Month	1 Year	6 Months
Cystatin C (Blood)		Nephrology	Nephelometry	Serum	2 Weeks	5 Weeks	18 Months	18 Months
Cystatin C (Urine)		Nephrology	Nephelometry	Urine	1 Week	2 Weeks	1 Month	1 Month
Electrophoresis (Serum)	SPEP	Nephrology	Electrophoresis	Serum	Not stable	1 Week	1 Month	1 Month

**Medpace Central Laboratories
Validated Assays 2017**

Analyte	Aliases	Category / Therapeutic Area	Method	Sample Type(s)	Stability (Ambient)	Stability (2-8 C)	Stability (-20 C)	Stability (-70 C)
Electrophoresis (Urine)	UPEP	Nephrology	Electrophoresis	Urine	Not Stable	1 Week	1 Month	1 Month
Epidermal Growth Factor	EGF	Nephrology	EIA	Urine	1 Week	3 Weeks	1 Year	1 Year
Immunofixation (Serum)		Nephrology	Electrophoresis	Serum	Not stable	1 Week	1 Month	1 Month
Immunofixation (Urine)		Nephrology	Electrophoresis	Urine	Not Stable	1 Week	1 Month	1 Month
Kidney Injury Molecule - 1	KIM-1	Nephrology	EIA	Urine	1 Week	1 Week	16 Months	16 Months
N-Acetyl-β-D-Glucosaminidase	NAG	Nephrology	Photometric	Urine	1 Week	1 Month	1 Month (ongoing)	1 Month (ongoing)
Neutrophil gelatinase-associated lipocalin (Blood)	NGAL	Nephrology	Immunoturbidity	EDTA Plasma	2 Days	1 Week	6 Months	6 Months
Neutrophil gelatinase-associated lipocalin (Urine)	NGAL	Nephrology	Immunoturbidity	Urine	2 Days	1 Week	11 Months	11 Months
Osmolality (Blood)	Osmo	Nephrology	Freezing-point depression	Serum	7 Days	4 Weeks	1 Month (Ongoing)	1 Month (Ongoing)
Osmolality (Urine)	Osmo	Nephrology	Freezing-point depression	Urine	7 Days	4 Weeks	1 Month (Ongoing)	1 Month (Ongoing)
Transforming Growth Factor, Beta 1	TGF-B1	Nephrology	EIA	Urine	2 Days	1 Week	8 Months	8 Months
Beta Carotene		Nutritional	UPLC	EDTA Plasma;Serum	3 Weeks	3 Months	4 Months	1 Year
Folate		Nutritional	ECLIA	Serum	Not Stable	2 Days	1 Month	1 Month
Vitamin A	Retinol	Nutritional	UPLC	Serum	1 Week	1 Week	2 Years	5 Years
Vitamin B12		Nutritional	ECLIA	Serum	Not Stable	2 Days	2 Months	N/A
Vitamin E, Alpha		Nutritional	UPLC	Serum	1 Week	1 Week	2 Years	5 Years
Vitamin E, Alpha (HDL)		Nutritional	UPLC	Precipitated HDL Supernatant	N/A	N/A	13 Weeks	13 Weeks
Vitamin E, Alpha (RBC)		Nutritional	UPLC	EDTA Whole Blood	N/A	5 Days	10 Weeks	13 Weeks
Vitamin E, Gamma		Nutritional	UPLC	Serum	1 Week	1 Week	2 Years	5 Years
Vitamin E, Gamma (HDL)		Nutritional	UPLC	Precipitated HDL Supernatant	N/A	N/A	13 Weeks	13 Weeks
Vitamin E, Gamma (RBC)		Nutritional	UPLC	EDTA Whole Blood	N/A	5 Days	10 Weeks	13 Weeks
Alpha Fetoprotein	AFP	Oncology	ECLIA	Heparin Plasma	1 Week	1 Week	1 Year	1 Year
CA 125	Carbohydrate Antigen 125; Cancer Antigen 125	Oncology	ECLIA	Serum	1 Week	1 Week	1 Year	1 Year
Carcinoembryonic Antigen	CEA	Oncology	ECLIA	K3 EDTA Plasma; Sodium Heparin Plasma	1 Week	1 Week	1 Year	1 Year
CK-18, M30 Apoptosense	CK,18, soluble caspase-cleaved keratin 18	Oncology	EIA	Citrate Plasma; EDTA Plasma; Heparin Plasma; Serum	2 Days	1 Week	9 Months	9 Months
CK-18, M65 EpiDeath		Oncology	EIA	Serum	1 Day	4 Days	1 Week	11 Months
c-Met	c-Met	Oncology	EIA	Culture; EDTA Plasma; Serum	3 Days	1 Week	4 Months	4 Months
Fecal Occult Blood	FOB, iFOB	Oncology	Immunochromatography	Feces	8 Days	6 Months	2 Years	N/A
Fibroblast Growth Factor 2 (Urine)	FGF-2 (FGF basic)	Oncology	EIA	Urine	3 Days	2 Weeks	Not Stable	5 Months
Fibroblast Growth Factor 21	FGF-21	Oncology	EIA	Serum	1 Week	3 Weeks	1 Year	1 Year
Fibroblast Growth Factor 23	FGF-23	Oncology	EIA	Serum	5 Days	1 Week	2 years	11.5 Months
Melanoma-Inhibiting Activity/Cartilage-Derived Retinoic Acid-Sensitive Protein	MIA (CD-RAP)	Oncology	EIA	Serum	1 Week	2 Weeks	12 Months	11 Months

**Medpace Central Laboratories
Validated Assays 2017**

Analyte	Aliases	Category / Therapeutic Area	Method	Sample Type(s)	Stability (Ambient)	Stability (2-8 C)	Stability (-20 C)	Stability (-70 C)
Midkine		Oncology	EIA	Citrate Plasma; Heparin Plasma; Serum	1 Week	1 Week	10 Months	10 Months
Neuron Specific Enolase	NSE	Oncology	ECLIA	Serum	<1 Day	1 Day	3 Months	3 Months
Prostate Specific Antigen	PSA	Oncology	ECLIA	Serum	N/A	5 Days	6 Months	N/A
S-100		Oncology	ECLIA	Serum	<1 Day	2 Days	3 Months	3 Months
Vascular Adhesion Molecule I	VCAM-1, sVCAM-1	Oncology	EIA	EDTA Plasma; Heparin Plasma; Serum	7 Days	2 Weeks	2 Months (ongoing)	2 Months (ongoing)
Vascular Endothelial Growth Factor	VEGF	Oncology	EIA	EDTA Plasma; Serum	1 Week	3 Weeks	33 Months Serum, 1 Year EDTA Plasma	33 Months Serum, 1 Year EDTA Plasma
Vascular Endothelial Growth Factor A	VEGF-A	Oncology	EIA	Citrate Plasma; EDTA Plasma; Heparin Plasma; Serum	1 Day	5 Days	20 Months	20 Months
Vascular Endothelial Growth Factor Receptor 2	VEGF-R2	Oncology	EIA	EDTA Plasma; Heparin Plasma; Serum	1 Week	1 Week	20 Months	20 Months
RNA Extraction		RNA	RNA Extraction	EDTA Whole Blood	3 Days	5 Days	8 Years	8 Years
Urinalysis, Chemical Profile (bilirubin, blood, color, glucose, ketone, leukocyte esterase, nitrite, pH, protein, specific gravity, urobilinogen)	UA, Dipstick	Urinalysis	Colorimetry	Urine	3 Days	3 Days	Do not freeze	Do not freeze
Urinalysis, Chemical Profile: Clarity	UA, Dipstick	Urinalysis	Colorimetry	Urine	3 Days	3 Days	Do not freeze	Do not freeze
Urinalysis, Chemical Profile: Bilirubin	UA, Dipstick	Urinalysis	Colorimetry	Urine	3 Days	3 Days	Do not freeze	Do not freeze
Urinalysis, Chemical Profile: Blood	UA, Dipstick	Urinalysis	Colorimetry	Urine	3 Days	3 Days	Do not freeze	Do not freeze
Urinalysis, Chemical Profile: Color	UA, Dipstick	Urinalysis	Colorimetry	Urine	3 Days	3 Days	Do not freeze	Do not freeze
Urinalysis, Chemical Profile: Glucose	UA, Dipstick	Urinalysis	Colorimetry	Urine	3 Days	3 Days	Do not freeze	Do not freeze
Urinalysis, Chemical Profile: Ketone	UA, Dipstick	Urinalysis	Colorimetry	Urine	3 Days	3 Days	Do not freeze	Do not freeze
Urinalysis, Chemical Profile: Leukocyte esterase	UA, Dipstick	Urinalysis	Colorimetry	Urine	3 Days	3 Days	Do not freeze	Do not freeze
Urinalysis, Chemical Profile: Nitrite	UA, Dipstick	Urinalysis	Colorimetry	Urine	3 Days	3 Days	Do not freeze	Do not freeze
Urinalysis, Chemical Profile: pH	UA, Dipstick	Urinalysis	Colorimetry	Urine	3 Days	3 Days	Do not freeze	Do not freeze
Urinalysis, Chemical Profile: Protein	UA, Dipstick	Urinalysis	Colorimetry	Urine	3 Days	3 Days	Do not freeze	Do not freeze
Urinalysis, Chemical Profile: Specific gravity	UA, Dipstick	Urinalysis	Colorimetry	Urine	3 Days	3 Days	Do not freeze	Do not freeze
Urinalysis, Chemical Profile: Urobilinogen)	UA, Dipstick	Urinalysis	Colorimetry	Urine	3 Days	3 Days	Do not freeze	Do not freeze
Urinalysis, Confirmation: Ictotest		Urinalysis	Manual	Urine	3 Days	3 Days	N/A	N/A
Urinalysis, Confirmation: Protein by Acidification		Urinalysis	Colorimetry	Urine	3 Days	3 Days	N/A	N/A
Urinalysis, Confirmation: Specific Gavity		Urinalysis	Refractometry	Urine	3 Days	3 Days	N/A	N/A

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2m,4M

1w,1w,3m,12

7 days, 1
month

Medpace Central Laboratories Validated Assays 2017



1d,nstable,12
M,9m

2M, 2M
2 D, 1 m, 1m

3m,3m

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N/A

correct

7d

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8 d, 7 m

8 D, 2 w, 2 w,
2w

4m, 4m

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2M, 2M

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2w,1y

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2w,2w,2w

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10M plasma

8m

10M, 10M

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