September 15, 2025

Test Updates

The following tests have been updated to reflect the latest clinical guidelines and ensure optimal accuracy in patient care.

Protein C Antigen — PRCAG

Effective Date	Already Implemented
Test Name	Protein C Antigen
Test Code	PRCAG
Methodology Change	Enzyme Immunoassay (EIA)
New Reference Range	60–150% Protein C levels tend to be lower in newborns but typically reach adult ranges by six months of age Levels in some children remain low until 16 years of age.
New Units	%
Container Change	Blue–top (sodium citrate) tube

Stability Change

Storage:	Frozen
Room Temperature:	Unstable
Refrigerated	Unstable
Frozen:	28 days
Freeze/thaw cycles:	x3

Specimen Processing

Specimen Type:	Plasma
Volume:	1 mL
Specimen Processing:	1. Collect specimen in 2 light blue top (sodium citrate) tubes via venipuncture. Perform platelet–poor plasma procedure. 2. Transfer 1 mL of platelet–poor plasma to a LabCorp PP trans-pak frozen purple tube.

Apolipoprotein A–1 — APOA

Effective Date	Already Implemented
Test Name	Apolipoprotein A–1
Test Code	APOA

Methodology Change	Immunologic

New Reference Range

Male (mg/dL)	
0 to 14 days:	62–91
15 days to 11 months:	53–175
1 to 5 years:	80–164
6 to 12 years:	107–175
>12 years:	101–178

Female (mg/dL)	
0 to 14 days:	71–97
15 days to 11 months:	53–175
1 to 5 years:	80–164
6 to 80 years:	116–209
>80 years:	114–214

New Units	mg/dL
Container Change	Gold top serum separator, red–top tube, green–top (lithium heparin) tube, or lavender–top (EDTA) tube.

Stability Change

Storage:	Refrigerated
Room Temperature:	14 days
Refrigerated	14 days
Frozen:	14 days
Freeze/thaw cycles:	Stable x3

Specimen Processing

Specimen Type:	Serum (preferred) or plasma
Volume:	2 mL
Specimen Processing:	1. Separate serum from cells. 2. Transfer 2 mL of serum to a clear aliquot tube (screw cap).

Patient Preparation	Patient must be fasting 12–14 hours.

Immune Complexes, C_1q Binding — IC1Q

Effective Date	Already Implemented
Test Name	Immune Complexes, C1q Binding
Test Code	IC1Q
Methodology Change	Enzyme Immunoassay (EIA)

New Reference Range

Negative:	<4.4 µg Eq/mL
Equivocal:	4.4–10.7 µg Eq/mL
Positive:	> 10.7 µg Eq/mL

New Units	µg Eq/mL
Container Change	Red–top tube or gel–barrier tube

Stability Change

Storage:	Frozen
Room Temperature:	Unacceptable
Refrigerated	7 days
Frozen:	7 days

Specimen Processing

Specimen Type:	Serum
Volume:	1 mL
Specimen Processing:	1. Separate serum from cells. 2. Transfer specimen to a plastic transport tube before freezing. 3. To avoid delays in turnaround time when requesting multiple tests on frozen samples, please submit separate frozen specimens for each test requested.

Insulin–like Growth Factor–1 (IGF–1) with Z Score — IGF1Z

Effective Date	Already Implemented
Test Name	Insulin–like Growth Factor–1 (IGF–1) with Z Score
Test Code	IGF1Z
Methodology Change	Immunochemiluminometric assay (ICMA)

New Reference Range

Age (y)	Male (ng/mL)	Female (ng/mL)
<1	18–79	14–106
1	20–108	23–136
2	24–135	30–163
3	28–148	34–192
4	32–165	38–217
5	37–196	46–243
6	43–229	56–268
7	50–243	64–288
8	59–275	74–337
9	67–315	81–405
10	75–366	85–526
11	82–423	91–610
12	87–519	110–656
13	101–620	150–678
14	123–701	174–656
15	161–760	156–586
16	171–748	140–517
17	161–635	130–471

Age (y)	Male (ng/mL)	Female (ng/mL)
18	145–506	117–430
19	122–435	113–408
20	116–410	108–384
21 to 25	109–353	101–347
26 to 30	101–307	91–308
31 to 35	95–290	84–281
36 to 40	90–278	79–259
41 to 45	84–270	74–239
46 to 50	81–263	70–225
51 to 55	74-–255	65–216
56 to 60	68–247	60–207
61 to 65	64–240	57–202
66 to 70	59–230	52–196
71 to 75	53–222	48–191
76 to 80	45–207	42–185
81 to 85	40–194	39–177
86 to 90	33–176	34–169
>90	Not established	Not established

New Units	ng/mL
Container Change	Red–top tube or gel–barrier tube
Stability Change	**Storage:** Refrigerated **Room Temperature:** 3 days **Refrigerated** 7 days **Frozen:** 90 days **Freeze/thaw cycles:** Stable x 3
Specimen Processing	**Specimen Type:** Serum **Volume:** 0.5 mL **Specimen Processing:** 1. Separate serum from cells. 2. Transfer 0.5 mL of serum to a clear aliquot tube (screw cap).
Patient Preparation	This test may exhibit interference when sample is collected from a person who is consuming a supplement with a high dose of biotin (also termed as vitamin B7 or B8, vitamin H, or coenzyme R). It is recommended to ask all patients who may be indicated for this test about biotin supplementation. Patients should be cautioned to stop biotin consumption at least 72 hours prior to the collection of a sample.

Proinsulin PROIN

Effective Date	Already Implemented
Test Name	Proinsulin
Test Code	PROIN
Methodology Change	Enzyme Immunoassay (EIA)
New Reference Range	0.0–10.0
New Units	pmol/L
Container Change	Gold top serum separator, or red–top tub, plain.
Stability Change	**Storage:** Frozen **Room Temperature:** Unstable **Refrigerated** Unstable **Frozen:** 12 days **Freeze/thaw cycles:** Stable x 3

Specimen Processing	**Specimen Type:** Serum **Volume:** 0.6 mL **Specimen Processing:** 1. Transfer the serum into a LabCorp PP transpak frozen purple tube with screw cap. 2. Freeze immediately and maintain frozen until tested. 3. To avoid delays in turnaround time when requesting multiple tests on frozen samples. 4. Please submit separate frozen specimens for each test requested.
Patient Preparation	Baseline proinsulin levels should be collected after a 12–hour fast.

Serotonin, Serum — SEROS

Effective Date	Already Implemented
Test Name	Serotonin, Serum
Test Code	SEROS
Methodology Change	Liquid chromatography/tandem mass spectrometry (LC/MS-MS)
New Reference Range	**Male (mg/dL)** 0 to 12 years: 46–321 13 to 60 years: 31–207 >60 years: 23–230 **Female (mg/dL)** 0 to 12 years: 22–271 13 to 60 years: 31–207 >60 years: 8–217
New Units	ng/mL
Container Change	Red-top tube or gel-barrier tube
Stability Change	**Storage:** Refrigerated **Room Temperature:** 7 days **Refrigerated** 7 days **Frozen:** 14 days **Freeze/thaw cycles:** Stable x 2
Specimen Processing	**Specimen Type:** Serum **Volume:** 1 mL **Specimen Processing:** 1. Separate serum from cells within 30 minutes of collection. 2. Transfer 1 mL of serum to a clear aliquot tube (screw cap).
Patient Preparation	Monoamine oxidase inhibitor drugs should be discontinued for at least one week prior to sampling since they tend to increase the level of serotonin.

Phospholipase A2 Receptor Autoantibodies, IgG — PLA2R

Effective Date	Already Implemented
Test Name	Phospholipase A2 Receptor Autoantibodies, IgG
Test Code	PLA2R
Methodology Change	Enzyme-linked immunosorbent assay (ELISA)
New Reference Range	**Negative:** <14.0 **Equivocal:** 14.0 - 19.9 **Positive:** >19.9
New Units	RU/mL
Container Change	Gold top, serum separator
Stability Change	**Storage:** Refrigerated **Room Temperature:** 14 days **Refrigerated** 14 days **Frozen:** 14 days **Freeze/thaw cycles:** Stable x3
Specimen Processing	**Specimen Type:** Serum **Volume:** 0.5 mL **Specimen Processing:** 1. Separate serum from cells. 2. Transfer 0.5 mL of serum to a clear aliquot tube

Rheumatoid Factor Isotypes, IgG, IgA, and IgM by EIA (RDL) — RHEFR

Effective Date	Already Implemented
Test Name	Rheumatoid Factor Isotypes, IgG, IgA, and IgM by EIA (RDL)
Test Code	RHEFR
Methodology Change	Enzyme-linked immunosorbent assay (ELISA)
New Reference Range	**RF, IgG by EIA (RDL)** < 7 Units **RF, IgA by EIA (RDL)** < 7 Units **RF, IgM by EIA (RDL)** < 7 Units
New Units	U
Container Change	Gold top, serum separator, red top plain

Stability Change	**Storage:**	Refrigerated
	Room Temperature:	7 days
	Refrigerated	14 days
	Frozen:	60 days
	Freeze/thaw cycles:	Stable x 1
Specimen Processing	**Specimen Type:**	Serum
	Volume:	4 mL
	Specimen Processing:	1. Separate serum from cells within one hour of collection 2. Transfer 4 mL of serum to a clear aliquot tube (screw cap)

Histamine Determination, Plasma — HISTA

Effective Date	Already Implemented
Test Name	Histamine Determination, Plasma
Test Code	HISTA
Methodology Change	Enzyme Immunoassay (EIA)
New Reference Range	< 1.00
New Units	ng/mL
Container Change	Lavender-top (EDTA) tube

Stability Change	**Storage:**	Frozen
	Room Temperature:	Unstable
	Refrigerated	Unstable
	Frozen:	14 days
Specimen Processing	**Specimen Type:**	Plasma
	Volume:	2 mL
	Specimen Processing:	1. Separate plasma from cells. Transfer 2 mL of plasma to a LabCorp PP transpak frozen purple tube. 2. To avoid delays in turnaround time when requesting multiple tests on frozen samples, please submit separate frozen specimens for each test requested.

Soluble Transferrin Receptor — STFR

Effective Date	Already Implemented
Test Name	Soluble Transferrin Receptor

Test Code	STFR
Methodology Change	Immunochemiluminometric assay (ICMA)
New Reference Range	12.2 - 27.3
New Units	nmol/L
Container Change	Red-top tube, green-top (sodium or lithium heparin) tube, or lavender-top (EDTA) tube
Stability Change	**Storage:** Refrigerated **Room Temperature:** 14 days **Refrigerated** 14 days **Frozen:** 14 days **Freeze/thaw cycles:** Stable x 3
Specimen Processing	**Specimen Type:** Serum or Plasma **Volume:** 0.5 mL **Specimen Processing:** 1. Separate serum from cells. 2. Transfer 0.5 mL of serum to a clear aliquot tube (screw cap).

Additional Information

If you have questions regarding these tests, please contact Technical Support between 8 a.m. and 4:30 p.m. For general questions, Customer Care is available to assist at any time.

Technical Support/Customer Care

Call 877–402–4221

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