

## In This Issue

### Chemistry

- Lead, capillary blood updates
- Beta 2 microglobulin reference range change
- C3 complement reference range change
- C4 complement reference range change
- Ceruloplasmin reference range change
- Cytomegalovirus (CMV), saliva (newborns only) orderable
- Immunoglobulin A reference range change
- Immunoglobulin G reference range change
- Immunoglobulin M reference range change
- Rheumatoid factor reference range change

### Referral Testing

- Ashkenazi Jewish carrier profile complete orderable
- Acetylcholine receptor (AChR) modulating antibodies no longer available
- Myasthenia gravis profile with reflex assay updates
- Testosterone free and total reference range change
- Vitamin K1 updates

### Transfusion services

- Quality assurance changes

*Happy Medical Laboratory  
Professionals Week!*



#### Phone

612-863-4678  
800-281-4379

#### Fax

612-863-4067

---

---

## CHEMISTRY

### Lead, capillary blood updates

Due to reagent manufacturing issues, performance of the Lead, capillary blood assay (147/83655.3) at Allina Health Laboratory has been temporarily suspended. Until further notice, any orders for capillary lead testing should be submitted as an MSO for Lead, Capillary (fingerstick) blood pediatric to be referred to LabCorp for analysis (LC test 717016).

### Beta 2 microglobulin, serum, reference range change

Due to instrumentation change, the Beta 2 microglobulin assay (1096/82232.2) reference range has been updated.

Previous Reference ranges		NEW Reference ranges	
Age	Reference range	Age	Reference range
All	1.09 – 2.53 µg/dL	All	0.8 – 2.34 µg/dL

### C3 complement reference range change

Due to instrumentation change, the C3 complement assay (672/86260.2) reference range has been updated.

Previous Reference ranges		NEW Reference ranges	
Age	Reference range	Age	Reference range
Adult	90 - 180 mg/dL	Adult	81 - 157 mg/dL
0 up to 14 days	50 - 121 mg/dL		
14 days up to 1 year	51 - 160 mg/dL		
1 year up to 19 years	83 - 152 mg/dL		
≥19 years	90 - 180 mg/dL		

### C4 complement reference range change

Due to instrumentation change, the C4 complement assay (673/86260.1) reference range has been updated.

Previous Reference ranges		NEW Reference ranges	
Age	Reference range	Age	Reference range
All	10 - 40 mg/dL	All	12.9 – 39.2 mg/dL

## Ceruloplasmin reference range change

Due to instrumentation change, the Ceruloplasmin assay (63/82390.0) has a new reference range.

Previous Reference ranges		NEW Reference ranges	
Age	Reference range	Age	Reference range
Adult	18 - 45 mg/dL	Adult	20 - 60 mg/dL
0 - 3 months	5 - 18 mg/dL		
3 - 12 months	33 - 43 mg/dL		
1 - 7 years	24 - 56 mg/dL		
7 years and older	18 - 45 mg/dL		

## Cytomegalovirus (CMV), saliva (newborns only) orderable

Effective April 20, 2021, the Cytomegalovirus (CMV), saliva (newborns only) assay became orderable with a unique test code and no longer require use of the Miscellaneous sendout test code (994/LAB994).

	Previous	New
<b>Test number</b>	994	14455
<b>Abbreviation</b>	MSO	CMVS

## Immunoglobulin A reference range change

Due to a change in instrumentation, the reference ranges for the Immunoglobulin A (IgA) assay (1141/82784.3) have changed.

Age group	Reference range
<1 years	0 - 83 mg/dL
1 - 3 years	20 - 100 mg/dL
4 - 6 years	27 - 195 mg/dL
7 - 9 years	34 - 305 mg/dL
10 - 11 years	53 - 204 md/dL
12 - 13 years	58 - 358 mg/dL
14 - 15 years	47 - 249 mg/dL
16 - 19 years	61 - 348 mg/dL
Adult	84.5 - 499 mg/dL

## Immunoglobulin G reference range change

Due to an instrumentation change, the reference range change for the Immunoglobulin G assay (1140/82784.1) has changed.

Previous Reference ranges		NEW Reference ranges	
Age	Reference range	Age	Reference range
0 - 5 months	100 - 334 mg/dL	0 through 2 years	32.7 - 1270 mg/dL
5 - 9 months	164 - 588 mg/dL	3 through 4 years	468 - 1250 mg/dL
9 - 15 months	246 - 904 mg/dL	5 through 6 years	532 - 1340 mg/dL
15 - 14 months	313 - 1170 mg/dL	7 through 8 years	454 - 1360 mg/dL
2 - 4 years	295 - 1156 mg/dL	9 through 10 years	468 - 1360 mg/dL
4 - 7 years	386 - 1470 mg/dL	11 through 12 years	468 - 1490 mg/dL
7 - 10 years	462 - 1682 mg/dL	13 through 14 years	664 - 1490 mg/dL
10 - 13 years	503 - 1719 mg/dL	15 through 18 years	550 - 1440 mg/dL
13 - 16 years	509 - 1580 mg/dL	Adult	610 - 1616 mg/dL
16 - 18 years	487 - 1327 mg/dL		
>18 years	767 - 1590 mg/dL		

## Immunoglobulin M reference range change

Due to an instrumentation change, the reference range for the Immunoglobulin M assay (143/82784.2) has changed.

Previous Reference ranges		NEW Reference ranges	
Age	Reference range	Age	Reference range
0 - 5 months	26 - 122 mg/dL	Adult	35 - 242 mg/dL
5 - 9 months	32 - 132 mg/dL		
9 - 15 months	40 - 143 mg/dL		
15 - 14 months	46 - 152 mg/dL		
2 - 4 years	37 - 184 mg/dL		
4 - 7 years	37 - 224 mg/dL		
7 - 10 years	38 - 251 mg/dL		
10 - 13 years	41 - 255 mg/dL		
13 - 16 years	45 - 244 mg/dL		
16 - 18 years	49 - 201 mg/dL		
>18 years	37 - 286 mg/dl		

## Rheumatoid factor reference range change

Due to an instrumentation change, the reference range for the Rheumatoid factor, quantitative assay (711/86431.2) has changed.

Previous Reference ranges		NEW Reference ranges	
Age Group	Reference Range	Age Group	Reference Range
All	<15.9 IU/L	All	<12.5 IU/L

---

---

## REFERRAL TESTING

### Ashkenazi Jewish carrier profile complete orderable

The Ashkenazi Jewish carrier profile complete assay is now orderable with a unique test code and no longer requires use of the Miscellaneous sendout test code (994/LAB994).

	Previous	New
<b>Test number</b>	994	14448
<b>Abbreviation</b>	MSO	AJC

### Acetylcholine receptor (AChR) modulating antibodies no longer available

LabCorp has announced that effective April 12, 2021, the Acetylcholine receptor (AChR) modulating antibodies assay is no longer offered as a separate test.

The suggested alternate test is the Myasthenia gravis profile with reflex (14217, LabCorp 165600) which will include the Acetylcholine receptor (AChR) modulating antibodies.

## Myasthenia gravis profile with reflex assay updates

On April 12, 2021, the Myasthenia gravis profile with reflex (14217), referred to LabCorp, was modified to include additional tests.

	Previous	New
<b>LabCorp test #</b>	086001	165600
<b>Tests included</b>	AChR-binding antibody Striational antibody  Reflex criteria:  An AChR-binding antibody result <0.25 will reflex to the AChR-modulating antibody	Acetylcholine Receptor (AChR)-binding Antibodies Acetylcholine Receptor (AChR)-blocking Antibodies Acetylcholine Receptor (AChR)-modulating Antibodies Striational Antibodies  Reflex criteria:  If Acetylcholine Receptor (AChR)-binding, blocking and modulating antibodies are normal, will reflex to Muscle Specific Kinase (MuSK) Antibodies at an additional charge

## Testosterone free and total reference range change

LabCorp shared a change to the reference range for the Testosterone, total, as a part of the Testosterone, free and total assay (13510/LAB13510) which went into effect on April 10, 2021.

MALE	
Age	Range (ng/dL)
0 – 5 months	0 – 650
6 months – 8 years	0 – 36
9 – 10 years	0 – 21
11 years	1 – 161
12 years	2 – 521
13 – 15 years	28 – 656
16 – 19 years	150 – 785
> 19 years	264 – 916

FEMALE	
Age	Range (ng/dL)
0 – 30 days	4 – 190
1 – 6 months	0 – 42
7 months – 1 year	1 – 26
2 – 5 years	3 – 33
6 – 8 years	3 – 25
9 – 10 years	1 – 33
11 – 12 years	5 – 58
13 – 17 years	12 – 71
18 – 30 years	13 – 71
31 – 40 years	8 – 60
41 – 60 years	4 – 50
61 – 80 years	3 – 67
>80 years	2 – 45

There was no change to the range for the testosterone, free or the % free testosterone.

## Vitamin K1 updates

LabCorp has made multiple changes to the Vitamin K1 assay (13380/LAB13380) which went into effect on April 12, 2021.

	Previous	NEW
Methodology	High-pressure liquid chromatography (HPLC) with electrochemical (EC) detection	Liquid chromatography/tandem mass spectrometry (LC/MS-MS)
Reference range	0 - 1 yr: 0.13–3.37 ng/mL 2 - 17 yrs: 0.13–1.39 ng/mL >17 yrs: 0.13–1.88 ng/mL	0.10 – 2.20 ng/mL
Collection container	Red serum vial/tube, 5 mL	Lavender (EDTA), 4mL
Volume	1.5 mL	1.0 mL
Minimum volume	1.0 mL	0.5mL
Processing	<ol style="list-style-type: none"> <li>Immediately (within 45 minutes of sample collection) separate the plasma from red cells using refrigerated centrifugation or pre-chilled centrifuge carrier tubes before centrifuging.</li> <li>Transfer the plasma to a labeled LabCorp Amber 4mL screw-cap polypropylene frozen transport tube to protect from light and freeze on dry ice.</li> </ol> <p>To avoid delays in turnaround time when requesting multiple tests on frozen samples, submit a separate frozen aliquot for each test requested.</p>	Spin, separate, protect from light.
Alternate collection container	Lavender (EDTA), 4mL	Lt green plasma separator (PST), Gold serum separator (SST) tube or Red serum vial/tube, 5 mL.
Transport stability	Frozen (strict) - 3 months <i>Protect from light</i>	Refrigerated ( <i>preferred</i> ) – 14 days Ambient – 7 days Frozen – 14 days <i>Freeze/thaw cycles: stable x 3</i> <i>Protect from light</i>
Patient preparation		Patient should fast for 12 hours
Causes for rejection	Specimen not protected from light Specimen not received frozen Use of anticoagulants other than EDTA	Mild or gross lipemia Gross hemolysis Specimen not protected from light

---

---

## TRANSFUSION SERVICES

### Quality assurance changes

In order to meet American Association of Blood Banks (AABB) and College of American Pathologists (CAP) guidelines for positive patient identification related to the reduction in misidentified recipients who have compatibility samples drawn, effective April 20, 2021, the Allina Health Laboratory Transfusion Services implemented new quality assurance testing.

When an ABO, Rh and Antibody screen are ordered in preparation for transfusion of a blood product (red cells or granulocytes), if all criteria for positive patient identification is not met at the time of collection and the patient has not had an ABO and Rh performed by Allina in the past 15 years, the patient may need to have a second specimen drawn, prior to transfusion, in order to meet the identification guidelines put in place by AABB and CAP.

---

---

***Thank you for choosing Allina Health Laboratory -  
we value your business!***