



Effective Date:
Monday, August 05, 2019

Test Updates

In our continuing effort to provide you with the highest quality toxicology laboratory services available, we have compiled important changes regarding a number of tests we perform. Listed below are the types of changes that may be included in this notification, effective Monday, August 05, 2019

Test Changes - Tests that have had changes to the method/ CPT code, units of measurement, scope of analysis, reference comments, or specimen requirements.

Discontinued Tests - Tests being discontinued with alternate testing suggestions.

Please use this information to update your computer systems/records. These changes are important to ensure standardization of our mutual laboratory databases.

If you have any questions about the information contained in this notification, please call our Client Support Department at (866) 522-2206. Thank you for your continued support of NMS Labs and your assistance in implementing these changes.

The CPT Codes provided in this document are based on AMA guidelines and are for informational purposes only. NMS Labs does not assume responsibility for billing errors due to reliance on the CPT Codes listed in this document.



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Test Updates

Test Code	Test Name	Test Name	Method / CPT Code	Specimen Req.	Stability	Scope	Units	Reference Comments	Discontinue
0266B	Aluminum Proficiency, Blood			•					
0264B	Aluminum, Blood			•					
0410B	Antimony, Blood			•					
0410R	Antimony, RBCs			•					
2302U	Aromatic Solvent Metabolites Panel 1, Urine								•
0430U	Aromatic Solvents Metabolites Panel 2, Urine								•
2416U	Aromatic Solvents Metabolites Panel, Urine	•		•	•	•			
0460B	Arsenic, Blood			•					
0460R	Arsenic, RBCs			•					
0519B	Barium, Blood			•					
0640B	Beryllium Proficiency, Blood			•					
0638B	Beryllium, Blood			•					
0680B	Bismuth, Blood			•					
10194R	Bismuth, RBC (CSA)			•					
0711B	Boron, Blood			•					
6108B	Cadmium Exposure Profile (OSHA), Blood			•					
0921B	Cadmium, Blood			•					
0921R	Cadmium, RBCs			•					
0962SP	Cannabidiol, Serum/Plasma				•				
1006B	Carbon Monoxide - Iron Ratio Profile, Blood			•					
1042B	Cesium, Blood			•					
1273B	Chromium - Total, Blood (CSA)			•					
1265B	Chromium and Cobalt, Blood			•					
10082B	Chromium and Cobalt, Blood (CSA)			•					
1261B	Chromium, Blood			•					
1290B	Cobalt, Blood			•					
1330B	Copper, Blood			•					
1330R	Copper, RBCs			•					
8103B	Environmental Exposure Screen, Blood (Forensic)			•					
6303B	Firefighter Core Baseline Profile, Blood			•					
2150B	Gallium, Blood			•					



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Test Code	Test Name	Test Name	Method / CPT Code	Specimen Req.	Stability	Scope	Units	Reference Comments	Discontinue
2156B	Germanium, Blood			•					
2171B	Gold, Blood			•					
2280U	Hexacarbon Exposure Profile, Urine								•
2406B	Indium, Blood			•					
2406R	Indium, RBCs			•					
2412B	Inhalants Panel, Alkane Gases, Blood	•							
2412TI	Inhalants Panel, Alkane Gases, Tissue	•		•					
6364R	Inorganic Panel 64, RBCs			•					
2430B	Iron, Blood			•					
2490B	Lead and ZPP, Blood			•					
2492B	Lead, Blood			•					
10096B	Lead, Blood CSA			•					
2492R	Lead, RBCs			•					
2570B	Manganese, Blood			•					
2672B	Mercury Proficiency, Blood			•					
2670B	Mercury, Blood			•					
2670R	Mercury, RBCs			•					
2697B	Metals Acute Poisoning Panel, Blood (CSA)			•					
10083B	Metals Panel 4, Blood (CSA)			•					
10084B	Metals Panel 5, Blood (CSA)			•					
2693B	Metals/Metalloids Acute Poisoning Panel, Blood			•					
2693R	Metals/Metalloids Acute Poisoning Panel, RBCs			•					
2661B	Metals/Metalloids Panel 1, Blood			•					
2662B	Metals/Metalloids Panel 2, Blood			•					
2663B	Metals/Metalloids Panel 3, Blood			•					
3066B	Mineral Profile, Blood			•					
3066R	Mineral Profile, RBCs			•					
3090B	Molybdenum, Blood			•					
3140B	Nickel, Blood			•					
3140R	Nickel, RBCs			•					
3292B	Palladium, Blood			•					
3789B	Platinum Proficiency, Blood			•					



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Test Code	Test Name	Test Name	Method / CPT Code	Specimen Req.	Stability	Scope	Units	Reference Comments	Discontinue
3783B	Platinum, Blood			•					
2667B	Proficiency Panel 1, Blood			•					
2668B	Proficiency Panel 2, Blood			•					
2669B	Proficiency Panel 3, Blood			•					
3974TI	Propane, Tissue			•					
4124B	Rubidium, Blood			•					
4124R	Rubidium, RBCs			•					
4180B	Selenium, Blood			•					
4190B	Silicon, Blood			•					
4201B	Silver Proficiency, Blood			•					
4200B	Silver, Blood			•					
4212B	Strontium, Blood			•					
4322B	Tellurium Proficiency, Blood			•					
4320B	Tellurium, Blood			•					
4370B	Thallium, Blood			•					
4485B	Tin - Total, Blood			•					
4486B	Titanium, Blood			•					
4730B	Tungsten, Blood			•					
4885B	ZPP (Zinc Protoporphyrin), Blood			•					
4844B	Zinc, Blood			•					
4844R	Zinc, RBCs			•					
10021R	Zinc, RBCs (CSA)			•					



Test Updates

Test Changes

0266B Aluminum Proficiency, Blood

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 1 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Clotted Blood specimens are not acceptable.
Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin).
Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Green top tube (Sodium Heparin).

0264B Aluminum, Blood

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 1 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Clotted Blood specimens are not acceptable.
Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin).
Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Green top tube (Sodium Heparin).

0410B Antimony, Blood

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 1 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Clotted Blood specimens are not acceptable. Collect sample in Glass Container
(see Specimen Container).
Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Plastic container. Light Green top tube (Lithium Heparin). Tan top tube - glass
(Sodium Heparin). Green top tube (Lithium Heparin). Royal Blue top tube (Trace
metal-free; Sodium Heparin). Gray top tube (Sodium Fluoride / Potassium Oxalate).
Green top tube (Sodium Heparin).



Test Updates

Test Changes

0410R Antimony, RBCs

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 2 mL RBCs

Transport Temperature: Refrigerated

Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)

Light Protection: Not Required

Special Handling: Collect sample in Glass Container (see Specimen Container).
Centrifuge and separate Plasma within two hours of collection. Leave RBCs in the original collection container and replace stopper. Tubes containing Heparin based anticoagulants are not acceptable.

Rejection Criteria: Received Frozen. Plastic container. Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin). Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Gray top tube (Sodium Fluoride / Potassium Oxalate). Green top tube (Sodium Heparin).

2416U Aromatic Solvents Metabolites Panel, Urine

Summary of Changes: Test Name was changed.
Specimen Requirements were changed.
Stability was changed.
Scope of Analysis was changed.
S-Phenylmercapturic Acid (Creatinine corrected), t,t-Muconic Acid, S-Phenylmercapturic Acid, t,t-Muconic Acid (Creatinine corrected) and p-and/or m-Cresol were added.

Specimen Requirements: 8 mL Urine

Transport Temperature: Refrigerated

Specimen Container: Plastic container (preservative-free)

Light Protection: Not Required

Special Handling: Collect sample at end of shift.
Acidify with 1.0 mL acetic acid per 100 mL urine.

Rejection Criteria: Received Room Temperature.

Stability: Room Temperature: 4 day(s)

Refrigerated: 7 day(s)

Frozen (-20 °C): 14 day(s)



Test Updates

Test Changes

Scope of Analysis: GC (84600): o-Cresol, o-Cresol (Creatinine corrected), Phenol - Total, Phenol - Total (Creatinine corrected), p-and/or m-Cresol
 Method (CPT Code) LC-MS/MS (83921): Phenylglyoxylic Acid, Phenylglyoxylic Acid (Creatinine corrected), Mandelic Acid, Mandelic Acid (Creatinine corrected), Mandelic Acid Plus Phenylglyoxylic Acid (Creatinine corrected), Hippuric Acid, Hippuric Acid (Creatinine corrected), 2-Methylhippuric Acid, 2-Methylhippuric Acid (Creatinine corrected), 3- and 4-Methylhippuric Acid, 3- and 4-Methylhippuric Acid (Creatinine corrected), Methylhippuric Acids - Total, Methylhippuric Acids - Total (Creatinine corrected)
 Colorimetry (82570): Creatinine
 LC-MS/MS (83921): S-Phenylmercapturic Acid, S-Phenylmercapturic Acid (Creatinine corrected), t,t-Muconic Acid, t,t-Muconic Acid (Creatinine corrected)

Compound Name	Units	Reference Comment
S-Phenylmercapturic Acid	mcg/L	
S-Phenylmercapturic Acid (Creatinine corrected)	mcg/g Creat	Biological Exposure Index (ACGIH) for monitoring exposure to Benzene: 25 mcg S-Phenylmercapturic Acid/g Creatinine measured in an end of shift specimen.
t,t-Muconic Acid	mcg/L	
t,t-Muconic Acid (Creatinine corrected)	mcg/g Creat	Biological Exposure Index (ACGIH) for monitoring exposure to Benzene: 500 mcg t,t-Muconic Acid/g Creatinine measured in an end of shift specimen.
p-and/or m-Cresol	mg/L	Normal: 20 - 200 mg p-Cresol/L.

0460B Arsenic, Blood

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 1 mL Blood
 Transport Temperature: Refrigerated
 Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
 Light Protection: Not Required
 Special Handling: Clotted Blood specimens are not acceptable.
Avoid seafood consumption for 48 hours prior to sample collection. Tubes containing Heparin based anticoagulants are not acceptable.
 Rejection Criteria: Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin). Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Green top tube (Sodium Heparin).

0460R Arsenic, RBCs

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.



Test Updates

Test Changes

Specimen Requirements: 2 mL RBCs
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Avoid seafood consumption for 48 hours prior to sample collection. Centrifuge and separate Plasma within two hours of collection. Leave RBCs in the original collection container and replace stopper. Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Received Frozen. Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin). Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Green top tube (Sodium Heparin).

0519B Barium, Blood

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 1 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Clotted Blood specimens are not acceptable.
Collect sample in plastic tube. Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Light Green top tube (Lithium Heparin). Glass container. Tan top tube - glass (Sodium Heparin). Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Gray top tube (Sodium Fluoride / Potassium Oxalate). Green top tube (Sodium Heparin).

0640B Beryllium Proficiency, Blood

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 1 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Clotted Blood specimens are not acceptable.
Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin). Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Green top tube (Sodium Heparin).

0638B Beryllium, Blood



Test Updates

Test Changes

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 1 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Clotted Blood specimens are not acceptable.
Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin).
Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Green top tube (Sodium Heparin).

0680B Bismuth, Blood

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 1 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Clotted Blood specimens are not acceptable.
Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin).
Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Green top tube (Sodium Heparin).

10194R Bismuth, RBC (CSA)

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 2 mL RBCs
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Centrifuge and separate Plasma within two hours of collection. Leave RBCs in the original collection container and replace stopper. Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Received Frozen. Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin). Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Green top tube (Sodium Heparin).

0711B Boron, Blood



Test Updates

Test Changes

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 2 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Clotted Blood specimens are not acceptable.
Immediately transfer sample to an acid washed plastic screw capped vial. Glass containers are not acceptable. Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Glass container. Tan top tube - glass (Sodium Heparin). Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Green top tube (Sodium Heparin).

6108B Cadmium Exposure Profile (OSHA), Blood

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 2 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Please submit samples using the NMS Labs OSHA Cadmium Exposure kit.
Collect sample at end of shift into the provided container labeled: Blood Collection Container - Cadmium.
Clotted Blood specimens are not acceptable.
Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin). Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Green top tube (Sodium Heparin).

0921B Cadmium, Blood

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.



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Test Changes

Specimen Requirements: 2 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin).
Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Green top tube (Sodium Heparin).

0921R Cadmium, RBCs

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 1 mL RBCs
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Centrifuge and separate Plasma within two hours of collection. Leave RBCs in the original collection container and replace stopper. Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Received Frozen. Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin). Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Green top tube (Sodium Heparin).

0962SP Cannabidiol, Serum/Plasma

Summary of Changes: Stability was changed.

Stability: Room Temperature: 14 day(s)
Refrigerated: 30 day(s)
Frozen (-20 °C): 24 month(s)

1006B Carbon Monoxide - Iron Ratio Profile, Blood

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.



Test Updates

Test Changes

Specimen Requirements: 5 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Lavender top tube (EDTA), Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Clotted Blood specimens are not acceptable.
Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin).
Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Green top tube (Sodium Heparin).

1042B Cesium, Blood

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 1 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Clotted Blood specimens are not acceptable.
Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin).
Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Green top tube (Sodium Heparin).

1273B Chromium - Total, Blood (CSA)

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 2 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Plasma: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin).
Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Gray top tube (Sodium Fluoride / Potassium Oxalate). Green top tube (Sodium Heparin). Lavender top tube (EDTA).

10082B Chromium and Cobalt, Blood (CSA)

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.



Test Updates

Test Changes

Specimen Requirements: 2 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Clotted Blood specimens are not acceptable. To reduce specimen contamination, powder-free gloves are recommended during collection. Blood should be drawn through an indwelling plastic intracath needle into a trace metal free evacuated tube (e.g. B/D Royal blue top Vacutainer®) containing EDTA as a preservative. If using a steel needle, contamination may be reduced by discarding the first tube. Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Plastic container. Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin). Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Gray top tube (Sodium Fluoride / Potassium Oxalate). Green top tube (Sodium Heparin). Lavender top tube (EDTA).

1265B Chromium and Cobalt, Blood

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 2 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Clotted Blood specimens are not acceptable. To reduce specimen contamination, powder-free gloves are recommended during collection. Blood should be drawn through an indwelling plastic intracath needle into a trace metal free evacuated tube (e.g. B/D Royal blue top Vacutainer®) containing EDTA as a preservative. If using a steel needle, contamination may be reduced by discarding the first tube. Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Plastic container. Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin). Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Gray top tube (Sodium Fluoride / Potassium Oxalate). Green top tube (Sodium Heparin). Lavender top tube (EDTA).

1261B Chromium, Blood

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.



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Specimen Requirements: 2 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin). Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Gray top tube (Sodium Fluoride / Potassium Oxalate). Green top tube (Sodium Heparin). Lavender top tube (EDTA).

1290B Cobalt, Blood

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 2 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Plastic container. Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin). Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Gray top tube (Sodium Fluoride / Potassium Oxalate). Green top tube (Sodium Heparin). Lavender top tube (EDTA).

1330B Copper, Blood

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 1 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Clotted Blood specimens are not acceptable.
Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin). Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Green top tube (Sodium Heparin).

1330R Copper, RBCs

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.



Test Updates

Test Changes

Specimen Requirements: 2 mL RBCs
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Centrifuge and separate Plasma within two hours of collection. Leave RBCs in the original collection container and replace stopper. Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Received Room Temperature. Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin). Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Green top tube (Sodium Heparin).

8103B Environmental Exposure Screen, Blood (Forensic)

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 10 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Gray top tube (Sodium Fluoride / Potassium Oxalate) AND Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Clotted Blood specimens are not acceptable.
Avoid seafood consumption for 48 hours prior to sample collection. Tubes containing Heparin based anticoagulants are not acceptable. Studies have shown that cyanide has variable instability in biological specimens and is particularly unstable in some postmortem specimens. The loss of cyanide can be minimized by shipping the sample to the laboratory for analysis as soon as possible, preferably using refrigerated transportation and preservation using sodium fluoride / potassium oxalate (grey-top tube). The potential for increases in cyanide concentrations, although rare, have also been demonstrated and may be due to microbial action. Preservation with sodium fluoride may reduce this possibility. Tubes should be filled to prevent loss of volatile compounds into headspace. Ensure that container remains tightly sealed.
Rejection Criteria: Plastic container. Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin). Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Gray top tube (Sodium Fluoride / Potassium Oxalate). Green top tube (Sodium Heparin). Lavender top tube (EDTA).

6303B Firefighter Core Baseline Profile, Blood

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.



Test Updates

Test Changes

Specimen Requirements: 4 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Gray top tube (Sodium Fluoride / Potassium Oxalate), Lavender top tube (EDTA), Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Yes
Special Handling: Clotted, hemolyzed or frozen blood specimens are not acceptable. Collect sample using alcohol free skin preparation. Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Not received Light Protected. Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin). Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Green top tube (Sodium Heparin).

2150B Gallium, Blood

Summary of Changes: Specimen Requirements (Specimen Container) were changed.
Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 2 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Clotted Blood specimens are not acceptable. Collect sample in plastic tube. Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Glass container. Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin). Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Gray top tube (Sodium Fluoride / Potassium Oxalate). Lavender top tube (EDTA). Green top tube (Sodium Heparin).

2156B Germanium, Blood

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 3 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Clotted Blood specimens are not acceptable. Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin). Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Green top tube (Sodium Heparin).

2171B Gold, Blood



Test Updates

Test Changes

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 2 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Received Room Temperature. Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin). Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Green top tube (Sodium Heparin).

2406B Indium, Blood

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 1 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Clotted Blood specimens are not acceptable.
Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin). Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Green top tube (Sodium Heparin).

2406R Indium, RBCs

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 2 mL RBCs
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Centrifuge and separate Plasma within two hours of collection. Leave RBCs in the original collection container and replace stopper. Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Received Frozen. Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin). Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Green top tube (Sodium Heparin).

2412B Inhalants Panel, Alkane Gases, Blood



Test Updates

Test Changes

Summary of Changes: Test Name was changed.

2412TI Inhalants Panel, Alkane Gases, Tissue

Summary of Changes: Test Name was changed.
Specimen Requirements (Transport Temperature) were changed.

Specimen Requirements: 10 g Tissue
Transport Temperature: Frozen
Specimen Container: Plastic container (preservative-free)
Light Protection: Not Required
Special Handling: Ensure that container remains tightly sealed.
Rejection Criteria: None

6364R Inorganic Panel 64, RBCs

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 4 mL RBCs
Transport Temperature: Refrigerated
Specimen Container: Plasma: Royal Blue top tube (Trace metal-free; EDTA), Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Avoid seafood consumption for 48 hours prior to sample collection. Centrifuge and separate Plasma within two hours of collection. Leave RBCs in the original collection container and replace stopper. Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Received Frozen. Plastic container. Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin). Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Gray top tube (Sodium Fluoride / Potassium Oxalate). Green top tube (Sodium Heparin). Lavender top tube (EDTA).

2430B Iron, Blood

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.



Test Updates

Test Changes

Specimen Requirements: 1 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Clotted Blood specimens are not acceptable.
Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin).
Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin).
Green top tube (Sodium Heparin).

2490B Lead and ZPP, Blood

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 3 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Yes
Special Handling: Clotted, hemolyzed or frozen blood specimens are not acceptable. Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Not received Light Protected. Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin). Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Green top tube (Sodium Heparin).

2492B Lead, Blood

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 1 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Clotted Blood specimens are not acceptable.
Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin).
Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin).
Green top tube (Sodium Heparin).

10096B Lead, Blood CSA

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.



Test Updates

Test Changes

Specimen Requirements: 1 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Clotted Blood specimens are not acceptable.
Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin).
Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin).
Green top tube (Sodium Heparin).

2492R Lead, RBCs

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 2 mL RBCs
Transport Temperature: Refrigerated
Specimen Container: Plasma: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Centrifuge and separate Plasma within two hours of collection. Leave RBCs in the original collection container and replace stopper. Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Received Frozen. Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin). Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Green top tube (Sodium Heparin).

2570B Manganese, Blood

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 2 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Clotted Blood specimens are not acceptable.
Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin).
Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin).
Gray top tube (Sodium Fluoride / Potassium Oxalate). Green top tube (Sodium Heparin). Lavender top tube (EDTA).

2672B Mercury Proficiency, Blood



Test Updates

Test Changes

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 1 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Clotted Blood specimens are not acceptable.
Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin).
Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin).
Green top tube (Sodium Heparin).

2670B Mercury, Blood

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 1 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Clotted Blood specimens are not acceptable.
Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin).
Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin).
Green top tube (Sodium Heparin).

2670R Mercury, RBCs

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 1 mL RBCs
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Centrifuge and separate Plasma within two hours of collection. Leave RBCs in the original collection container and replace stopper. Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Received Frozen. Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin). Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Green top tube (Sodium Heparin).

2697B Metals Acute Poisoning Panel, Blood (CSA)



Test Updates

Test Changes

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 5 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Clotted Blood specimens are not acceptable. Collect sample in Glass Container (see Specimen Container).
Avoid seafood consumption for 48 hours prior to sample collection. Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Plastic container. Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin). Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Gray top tube (Sodium Fluoride / Potassium Oxalate). Green top tube (Sodium Heparin). Lavender top tube (EDTA).

10083B Metals Panel 4, Blood (CSA)

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 5 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Yes
Special Handling: Clotted, hemolyzed or frozen blood specimens are not acceptable.
Avoid seafood consumption for 48 hours prior to sample collection.
Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Not received Light Protected. Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin). Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Green top tube (Sodium Heparin).

10084B Metals Panel 5, Blood (CSA)

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.



Test Updates

Test Changes

Specimen Requirements: 4 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Clotted Blood specimens are not acceptable.
Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Plastic container. Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin). Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Gray top tube (Sodium Fluoride / Potassium Oxalate). Green top tube (Sodium Heparin). Lavender top tube (EDTA).

2693B Metals/Metalloids Acute Poisoning Panel, Blood

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 3 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Clotted Blood specimens are not acceptable. Collect sample in Glass Container (see Specimen Container).
Avoid seafood consumption for 48 hours prior to sample collection. Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Plastic container. Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin). Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Gray top tube (Sodium Fluoride / Potassium Oxalate). Green top tube (Sodium Heparin). Lavender top tube (EDTA).

2693R Metals/Metalloids Acute Poisoning Panel, RBCs

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 3 mL RBCs
Transport Temperature: Refrigerated
Specimen Container: Plasma: Royal Blue top tube (Trace metal-free; EDTA), Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Collect sample in Glass Container (see Specimen Container).
Avoid seafood consumption for 48 hours prior to sample collection. Centrifuge and separate Plasma within two hours of collection. Leave RBCs in the original collection



Test Updates

Test Changes

container and replace stopper. Tubes containing Heparin based anticoagulants are not acceptable.

Rejection Criteria: Received Frozen. Plastic container. Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin). Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Light Blue top tube (Sodium Citrate). Gray top tube (Sodium Fluoride / Potassium Oxalate). Green top tube (Sodium Heparin). Yellow top tube (ACD - Acid Citrate Dextrose). Lavender top tube (EDTA).

2661B Metals/Metalloids Panel 1, Blood

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 2 mL Blood

Transport Temperature: Refrigerated

Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)

Light Protection: Not Required

Special Handling: Clotted Blood specimens are not acceptable.
Avoid seafood consumption for 48 hours prior to sample collection. Tubes containing Heparin based anticoagulants are not acceptable.

Rejection Criteria: Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin). Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Green top tube (Sodium Heparin).

2662B Metals/Metalloids Panel 2, Blood

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 2 mL Blood

Transport Temperature: Refrigerated

Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)

Light Protection: Not Required

Special Handling: Clotted Blood specimens are not acceptable.
Tubes containing Heparin based anticoagulants are not acceptable.

Rejection Criteria: Plastic container. Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin). Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Gray top tube (Sodium Fluoride / Potassium Oxalate). Green top tube (Sodium Heparin). Lavender top tube (EDTA).

2663B Metals/Metalloids Panel 3, Blood

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.



Test Updates

Test Changes

Specimen Requirements: 5 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Yes
Special Handling: Clotted, hemolyzed or frozen blood specimens are not acceptable.
Avoid seafood consumption for 48 hours prior to sample collection.
Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Not received Light Protected. Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin). Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Gray top tube (Sodium Fluoride / Potassium Oxalate). Green top tube (Sodium Heparin). Lavender top tube (EDTA).

3066B Mineral Profile, Blood

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 3 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: For Magnesium testing, please order Magnesium test 2551.
Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Plastic container. Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin). Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Gray top tube (Sodium Fluoride / Potassium Oxalate). Green top tube (Sodium Heparin). Lavender top tube (EDTA).

3066R Mineral Profile, RBCs

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 5 mL RBCs
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: For Magnesium testing, please order Magnesium test 2551.



Test Updates

Test Changes

Centrifuge and separate Plasma within two hours of collection. Leave RBCs in the original collection container and replace stopper. Tubes containing Heparin based anticoagulants are not acceptable.

Rejection Criteria: Received Room Temperature. Received Frozen. Plastic container. Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin). Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Light Blue top tube (Sodium Citrate). Gray top tube (Sodium Fluoride / Potassium Oxalate). Lavender top tube (EDTA). Yellow top tube (ACD - Acid Citrate Dextrose). Green top tube (Sodium Heparin).

3090B Molybdenum, Blood

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 2 mL Blood

Transport Temperature: Refrigerated

Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)

Light Protection: Not Required

Special Handling: Clotted Blood specimens are not acceptable.

Tubes containing Heparin based anticoagulants are not acceptable.

Rejection Criteria: Plastic container. Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin). Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Gray top tube (Sodium Fluoride / Potassium Oxalate). Green top tube (Sodium Heparin). Lavender top tube (EDTA).

3140B Nickel, Blood

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 2 mL Blood

Transport Temperature: Refrigerated

Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)

Light Protection: Not Required

Special Handling: Clotted Blood specimens are not acceptable.

Tubes containing Heparin based anticoagulants are not acceptable.

Rejection Criteria: Plastic container. Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin). Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Gray top tube (Sodium Fluoride / Potassium Oxalate). Green top tube (Sodium Heparin). Lavender top tube (EDTA).

3140R Nickel, RBCs

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.



Effective Date:
Monday, August 05, 2019

Test Updates

Test Changes

Specimen Requirements: 1 mL RBCs
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Centrifuge and separate Plasma within two hours of collection. Leave RBCs in the original collection container and replace stopper. Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Received Frozen. Plastic container. Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin). Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Gray top tube (Sodium Fluoride / Potassium Oxalate). Green top tube (Sodium Heparin). Lavender top tube (EDTA).

3292B Palladium, Blood

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 2 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Plasma: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin). Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Green top tube (Sodium Heparin).

3789B Platinum Proficiency, Blood

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 1 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Clotted Blood specimens are not acceptable.
Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin). Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Green top tube (Sodium Heparin).

3783B Platinum, Blood

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.



Effective Date:
Monday, August 05, 2019

Test Updates

Test Changes

Specimen Requirements: 1 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Clotted Blood specimens are not acceptable.
Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin).
Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Green top tube (Sodium Heparin).

2667B Proficiency Panel 1, Blood

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 1 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Clotted Blood specimens are not acceptable.
Clotted, hemolyzed or frozen blood specimens are not acceptable.
Avoid seafood consumption for 48 hours prior to sample collection.
Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Plastic container. Light Green top tube (Lithium Heparin). Glass container. Tan top tube - glass (Sodium Heparin). Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Gray top tube (Sodium Fluoride / Potassium Oxalate). Green top tube (Sodium Heparin). Lavender top tube (EDTA).

2668B Proficiency Panel 2, Blood

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 2 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Clotted Blood specimens are not acceptable.
Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Plastic container. Glass container. Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin). Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Gray top tube (Sodium Fluoride / Potassium Oxalate). Green top tube (Sodium Heparin). Lavender top tube (EDTA).

2669B Proficiency Panel 3, Blood



Test Updates

Test Changes

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 1 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Clotted Blood specimens are not acceptable.
Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin).
Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Green top tube (Sodium Heparin).

3974TI Propane, Tissue

Summary of Changes: Specimen Requirements (Transport Temperature) were changed.

Specimen Requirements: 10 g Tissue
Transport Temperature: Frozen
Specimen Container: Plastic container (preservative-free)
Light Protection: Not Required
Special Handling: Ensure that container remains tightly sealed.
Rejection Criteria: None

4124B Rubidium, Blood

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 2 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Clotted Blood specimens are not acceptable.
Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin).
Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Gray top tube (Sodium Fluoride / Potassium Oxalate). Green top tube (Sodium Heparin). Lavender top tube (EDTA).

4124R Rubidium, RBCs

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.



Test Updates

Test Changes

Specimen Requirements: 1 mL RBCs
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Centrifuge and separate Plasma within two hours of collection. Leave RBCs in the original collection container and replace stopper. Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Received Frozen. Plastic container. Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin). Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Gray top tube (Sodium Fluoride / Potassium Oxalate). Green top tube (Sodium Heparin). Lavender top tube (EDTA).

4180B Selenium, Blood

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 2 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Clotted Blood specimens are not acceptable.
Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin). Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Gray top tube (Sodium Fluoride / Potassium Oxalate). Green top tube (Sodium Heparin). Lavender top tube (EDTA).

4190B Silicon, Blood

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 2 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Immediately transfer sample to an acid washed plastic screw capped vial. Glass containers are not acceptable. Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Light Green top tube (Lithium Heparin). Glass container. Tan top tube - glass (Sodium Heparin). Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Green top tube (Sodium Heparin).

4201B Silver Proficiency, Blood



Test Updates

Test Changes

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 1 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Yes
Special Handling: Clotted Blood specimens are not acceptable.
Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Not received Light Protected. Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin). Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Green top tube (Sodium Heparin).

4200B Silver, Blood

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 1 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Yes
Special Handling: Clotted Blood specimens are not acceptable.
Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Not received Light Protected. Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin). Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Green top tube (Sodium Heparin).

4212B Strontium, Blood

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 1 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Clotted Blood specimens are not acceptable.
Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin). Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Green top tube (Sodium Heparin). Lavender top tube (EDTA).

4322B Tellurium Proficiency, Blood



Test Updates

Test Changes

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 1 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Clotted Blood specimens are not acceptable.
Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin).
Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin).
Green top tube (Sodium Heparin).

4320B Tellurium, Blood

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 1 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Clotted Blood specimens are not acceptable.
Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin).
Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin).
Green top tube (Sodium Heparin).

4370B Thallium, Blood

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 1 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Clotted Blood specimens are not acceptable.
Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin).
Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin).
Green top tube (Sodium Heparin).

4485B Tin - Total, Blood



Effective Date:
Monday, August 05, 2019

Test Updates

Test Changes

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 1 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Clotted Blood specimens are not acceptable.
Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin).
Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin).
Green top tube (Sodium Heparin).

4486B Titanium, Blood

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 2 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Clotted Blood specimens are not acceptable.
Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin).
Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin).
Green top tube (Sodium Heparin).

4730B Tungsten, Blood

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 1 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Clotted Blood specimens are not acceptable.
Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Light Green top tube (Lithium Heparin). Green top tube (Lithium Heparin).
Green top tube (Sodium Heparin).

4885B ZPP (Zinc Protoporphyrin), Blood



Test Updates

Test Changes

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 2 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Yes
Special Handling: Clotted, hemolyzed or frozen blood specimens are not acceptable. Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Not received Light Protected. Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin). Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Green top tube (Sodium Heparin).

4844B Zinc, Blood

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 1 mL Blood
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin). Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Green top tube (Sodium Heparin).

10021R Zinc, RBCs (CSA)

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 2 mL RBCs
Transport Temperature: Refrigerated
Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)
Light Protection: Not Required
Special Handling: Centrifuge and separate Plasma within two hours of collection. Leave RBCs in the original collection container and replace stopper. Tubes containing Heparin based anticoagulants are not acceptable.
Rejection Criteria: Received Room Temperature. Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin). Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Green top tube (Sodium Heparin). Lavender top tube (EDTA).

4844R Zinc, RBCs



Effective Date:
Monday, August 05, 2019

Test Updates

Test Changes

Summary of Changes: Specimen Requirements (Special Handling) were changed.
Specimen Requirements (Rejection Criteria) were changed.

Specimen Requirements: 2 mL RBCs

Transport Temperature: Refrigerated

Specimen Container: Royal Blue top tube (Trace metal-free; EDTA)

Light Protection: Not Required

Special Handling: Centrifuge and separate Plasma within two hours of collection. Leave RBCs in the original collection container and replace stopper. Tubes containing Heparin based anticoagulants are not acceptable.

Rejection Criteria: Received Room Temperature. Light Green top tube (Lithium Heparin). Tan top tube - glass (Sodium Heparin). Green top tube (Lithium Heparin). Royal Blue top tube (Trace metal-free; Sodium Heparin). Green top tube (Sodium Heparin). Lavender top tube (EDTA).



Effective Date:
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Test Updates

Discontinued Tests

Test Code	Test Name	Alternative Test
2302U	Aromatic Solvent Metabolites Panel 1, Urine	No Alternate Tests Available
0430U	Aromatic Solvents Metabolites Panel 2, Urine	No Alternate Tests Available
2280U	Hexacarbon Exposure Profile, Urine	No Alternate Tests Available