

# Legacy Laboratory Services

## Legacy Lab Alert

September 2017

An Important Update from Legacy Laboratory Services

### Update: Lead Industrial Exposure Panel is Brought In-House

Effective October 17, 2017, Legacy Laboratory Services will be bringing in-house the Lead, Industrial Exposure Panel, Adults (mnemonic: LEAD WB IND) currently being referred to separate laboratory. Please note that the room temperature stability will decrease from 30 hours to 24 hours. Other changes to specimen requirements are listed in Table 1.

**Table 1: Specimens Requirements for Lead Industrial Exposure Panel – Significant changes are indicated in red font.**

Name	NEW (Starts 10/17/17)	Current (Prior to 10/17/17)
	Lead Industrial Exposure Panel Adults	Lead, Industrial Exposure Panel, Adult
Performing Lab	Legacy Laboratory Services	ARUP Laboratories
Mnemonic	LEAD WB IND	LEAD-IND
Includes	Lead Zinc Protoporphyrin Zinc Protoporphyrin-to-Heme Ratio	Lead Zinc Protoporphyrin Zinc Protoporphyrin-to-Heme Ratio
Patient Preparation	Collect from patient aged 16 years or older.	Collect from patient aged 16 years or older.
Collect	Preferred: Venous Whole Blood, one certified lead-free tube such as one 6.0 mL royal blue (K <sub>2</sub> EDTA or Na <sub>2</sub> EDTA) top tube. Also acceptable: Venous whole blood, one 4.0 mL lavender (EDTA) top tube. <b>PROTECT FROM LIGHT.</b>  NOTE: All elevated Lead blood levels collected in a non-certified lead-free tube (i.e., EDTA lavender top tube) will be run with the following disclaimer: "Specimen was collected in a non-certified lead-free tube. Recommend confirming elevated level of blood lead with a second specimen collected in a lead-free tube."	Preferred: Venous Whole Blood, one certified lead-free tube such as one 6.0 mL royal blue (K <sub>2</sub> EDTA or Na <sub>2</sub> EDTA) top tube.
Handling	Guard the specimen against environmental contamination. Keep the specimen sealed in the original container. <b>PROTECT FROM LIGHT.</b> Do not separate the plasma from the red blood cells.	N/A
Preferred Volume	3.0 mL EDTA Whole Blood	7.0 mL EDTA Whole Blood
Minimum Volume	1.2 mL EDTA Whole Blood	3.0 mL EDTA Whole Blood
Transport	Refrigerated (2-8 °C), <b>PROTECT FROM LIGHT</b>	Refrigerated (2-8 °C)
Rejection Criteria	<ul style="list-style-type: none"> <li>Serum and plasma specimens</li> <li>Whole blood collected in tube with anticoagulant other than EDTA</li> <li>Frozen specimens</li> <li>Grossly hemolyzed specimens</li> <li>Specimens not protected from light</li> </ul>	<ul style="list-style-type: none"> <li>Serum and plasma specimens</li> <li>Whole blood collected in tube with anticoagulant other than EDTA</li> <li>Frozen specimens</li> <li>Grossly hemolyzed specimens</li> <li>Clotted specimens</li> </ul>

Name		NEW (Starts 10/17/17)	Current (Prior to 10/17/17)
		Lead Industrial Exposure Panel Adults	Lead, Industrial Exposure Panel, Adult
Stability	Room Temp (18-26°C)	24 hours	30 hours
	Refrigerated (2-8°C)	20 days	5 weeks
	Frozen (< -20°C)	Unacceptable	Unacceptable
Note		Elevated blood lead levels may be due to skin or collection-related contamination, including use of non-certified lead free tubes. Elevated levels of blood lead should be confirmed with a second specimen collected in a lead-free tube.	N/A
Reference Ranges		Lead: 0-4.9 µg/dL ZPP: 0-37 µg/dL ZPPH: 0-69 µmol ZPP/mol Heme	Lead: 0-4.9 µg/dL ZPP: 0-40 µg/dL ZPPH: 0-69 µmol ZPP/mol Heme
Performed		Mon, Wed, Fri	Mon-Fri
Reported		24-72 hours	3-8 days
Method		Atomic Absorption Spectroscopy- Graphite Furnace, Hematofluorometry	ICP-Mass Spectrometry, Hematofluorometry

For additional information, please contact your account representative, client services or consult our website:  
 Legacy Laboratory Client Services: 503-413-1234, 877-270-5566, [www.legacyhealth.org/labservices](http://www.legacyhealth.org/labservices)

