

January 11, 2022

TEST UPDATE: Lead, Whole Blood (LEAD)

Effective Date	Immediately						
Test Name	Lead, Whole Blood						
Order Code	LEAD						
Description of Change	Reference ranges for this test have been updated to reflect current CDC guidelines.						
CPT Code	83655						
Methodology	Graphite Furnace Atomic Absorption Spectrometry (GFAAS)						
Testing Schedule	Routine, 6 times per week						
Report Availability	1-3 days						
Specimen Requirements (Minimum Volume)	2 mL whole blood, or 250 µL BD™ Lavender MICROTAINER tube						
Specimen Requirements (Container)	<p><u>Container:</u></p> <ul style="list-style-type: none"> Tan top tube, K2 EDTA , or Royal Blue top tube, trace metal, K2 EDTA <p><u>Alternate Container:</u></p> <ul style="list-style-type: none"> BD™ Lavender top MICROTAINER tube, EDTA <p><u>Unacceptable Container:</u></p> <ul style="list-style-type: none"> Any venous tube other than Tan or Royal Blue top tubes 						
Specimen Requirements (Collection)	<p>Wash venipuncture site thoroughly with soap and water.</p> <p>Dry thoroughly with clean disposable towel.</p>						
Reference Ranges	<table border="1"> <thead> <tr> <th>PREVIOUS Reference Ranges:</th><th>UPDATED Reference Ranges:</th></tr> </thead> <tbody> <tr> <td>≤ 6 years = < 5.0</td><td>≤ 6 years = <3.5</td></tr> <tr> <td>>6 years = < 10.0</td><td>>6 years = <5.0</td></tr> </tbody> </table> <p>Blood levels greater than or equal to 3.5 µg/dL have been associated with adverse health effects in children. Refer to current CDC guidelines for recommended interventions.</p> <p>For OSHA occupational monitoring, workers with whole blood lead levels at or above 40 µg/dL should be referred to a physician for medical evaluation and follow-up.</p> <p>Repeat testing is recommended for capillary samples with lead levels greater than or equal to 3.5 µg/dL.</p> <p>Confirmation of elevated lead levels requires a venous blood draw to rule out skin or collection related contamination from environmental resources.</p>	PREVIOUS Reference Ranges:	UPDATED Reference Ranges:	≤ 6 years = < 5.0	≤ 6 years = <3.5	>6 years = < 10.0	>6 years = <5.0
PREVIOUS Reference Ranges:	UPDATED Reference Ranges:						
≤ 6 years = < 5.0	≤ 6 years = <3.5						
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Critical Utility	Detecting Lead Toxicity						

For technical questions related to this test, please ask for Technical Support at **877-402-4221** between the hours of 8 a.m. and 4:30 p.m.

REFERENCES:

Centers for Disease Control and Prevention & Division of Environmental Health Science and Practice. (2021). CDC -Lead - Recommended Actions Based on Blood Lead Levels. Centers for Disease Control and Prevention. October 27,2021, <https://www.cdc.gov/nceh/lead/advisory/acclpp/actions-blls.htm>