Lab Dept:	Chemistry
Test Name:	LEAD LEVEL
General Information	
Lab Order Codes:	LEAD
Synonyms:	Blood Lead; Pb
CPT Codes:	83655 - Lead
Test Includes:	Blood lead concentration reported in ug/dL.
Logistics	
Test Indications:	Lead is a heavy metal commonly found in the environment. Lead can be an acute and chronic toxin. Young children are particularly prone to the effects of lead because they have a greater opportunity for exposure.
Lab Testing Sections:	Chemistry
Phone Numbers:	MIN Lab: 612-813-6280
	STP Lab: 651-220-6550
Test Availability:	Daily, 24 hours Test performed Monday – Friday during day operating hours, except o holidays.
Turnaround Time:	1 – 4 days
Special Instructions:	See Collection
Specimen	
Specimen Type:	Whole blood
Container:	Dark Blue top with Lavender Stripe (EDTA, metal free) tube Alternate: Lavender top (EDTA) microtainer or Green top NO GEL (Lithium Heparin)
	Note: Microtainers preferred for minimum volume when drawn into EDTA tubes only.

Draw Volume:	Venous: Minimum: 1.5 mL blood (full tube capacity, preferred)
	Capillary: 0.5 mL blood
Processed Volume:	Same as draw volume
Collection:	Venous samples are preferred by routine venipuncture. Capillary specimens collected with scrupulous hand washing, will be accepted with the restriction that elevated lead must be confirmed with a venous sample.
Special Processing:	Lab Staff: Do Not centrifuge. Samples should remain as whole blood in original collection tube. Store at refrigerated temperature.
Patient Preparation:	None
Sample Rejection:	Mislabeled or unlabeled specimen; clotted specimen; collected in green gel microtainer tube
Interpretive	
Reference Range:	<5 ug/dL
	All blood lead results are reported to the MN Department of Health.
Critical Values:	>30 ug/dL
Limitations:	N/A
Methodology:	Atomic Absorption, Graphite Furnace
References:	Tietz (1999) Textbook of Clinical Chemistry, 3 rd edition, Philadelphia, WB Saunders Co, pp 989-990
	Minnesota Department of Health Lead Program (2005), PO Box 64974, St Paul, MN, December 2005
	NCCLS Approved Guideline C40-A, Analytical Procedures for the Determination of Lead in Blood and Urine, Vol 21, No 9, June 2001
	CDC Response to Advisory Committee on Childhood Lead Poisoning Prevention
	Recommendations in "Low Level Lead Exposure Harms Children: A Renewed Call of Primary Prevention", June/7/2012 (reference range).

Updates:

6/11/2007: Microtainer green top gel tubes are not acceptable containers for lead collections. 10/7/2013: Reference range previously listed as <10 ug/dL. 2/9/2016: Update container types. 2/14/2017: Tube update 4/19/2017: Added alternate tube Green (Li Heparin) 2/12/25: Updated test code