Lab Dept: Chemistry

Test Name: LEAD LEVEL

General Information

Lab Order Codes: PB

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 affects 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 on

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 temperatures.

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, 3rd 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)