

Aluminum, Blood

Test ID: ALWB

Useful for:

Preferred test for routine aluminum screening.

Monitoring metallic prosthetic implant wear.

Methods:

Triple-Quadrupole Inductively Coupled Plasma Mass Spectrometry (ICP-MS/MS)

Reference Values:

0-17 years: Not established

> or =18 years: <5 ng/mL

Specimen Requirements:

Container/Tube: Greiner Bio-One VACUETTE TUBE 6 mL NH Trace Elements Sodium Heparin tube

Preferred: Greiner Bio-One VACUETTE TUBE 6 mL NH Trace Elements Sodium Heparin tube (T819)

Acceptable: Greiner Bio-One VACUETTE TUBE 6 mL NH Trace Elements Sodium Heparin tube

Specimen Volume: 1 mL

Collection Instructions: See Metals Analysis Specimen Collection and Transport for complete instructions.

Minimum Volume: 0.4 mL

Specimen Stability Information:

Specimen Type	Temperature	Time
Whole Blood	Refrigerated	14 days

Cautions:

Failure to pay attention to proper specimen collection procedures can cause abnormal results due to specimen contamination, which can lead to misinterpretation and misdiagnosis:

-Most of the common evacuated blood collection devices have rubber stoppers that are comprised of aluminum-silicate. Simple puncture of the rubber stopper for blood collection is sufficient to contaminate the specimen with aluminum. Typically, blood drawn in standard evacuated blood tubes will be contaminated by 20 to 60 ng/mL aluminum.

-The use of wooden applicator sticks or pipette tips during specimen aliquoting can cause abnormal results due to contamination.

CPT Code:

82108

Day(s) Performed: Tuesday through Friday

Report Available: 1-5 days

Questions

Contact Rebekah Walsh, Laboratory Resource Coordinator at 800-533-1710.