

Reporting Title: ALA Dehydratase, WB

Performing Location: Rochester

Ordering Guidance:

This assay is not useful in assessment of lead intoxication as it reactivates aminolevulinic acid dehydratase that has been inhibited by lead. The preferred test for lead toxicity is PBDV / Lead, Venous, with Demographics, Blood.

Necessary Information:

1. Patient’s age is required
2. Include a list of medications the patient is currently taking.

Specimen Requirements:

**Patient Preparation:** Abstinence from alcohol is essential for at least 24 hours prior to specimen collection as ethanol suppresses aminolevulinic acid dehydratase activity, leading to false-positive results.

Container/Tube:

- Preferred:** Green top (sodium heparin)
- Acceptable:** Lavender top (EDTA) or green top (lithium heparin)
- Specimen Volume:** Full tube 4 mL

**Collection Instructions:** Refrigerate specimen as soon as possible.

Forms:

**New York Clients-Informed consent is required.** Document on the request form or electronic order that a copy is on file.

The following documents are available:

- [-Informed Consent for Genetic Testing](#) (T576)
- [-Informed Consent for Genetic Testing-Spanish](#) (T826)

Specimen Type	Temperature	Time	Special Container
Whole blood	Refrigerated (preferred)	7 days	
	Ambient	4 days	

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
4021	ALA Dehydratase	Alphanumeric	nmol/L/sec	12916-3
28399	Interpretation	Alphanumeric		59462-2
606468	Reviewed By	Alphanumeric		18771-6

LOINC® and CPT codes are provided by the performing laboratory.

Supplemental Report:

No

CPT Code Information:

82657

Reference Values:

Reference ranges have not been established for patients who are younger than 16 years of age.

- > or =4.0 nmol/L/sec
- 3.5-3.9 nmol/L/sec (indeterminate)
- <3.5 nmol/L/sec (diminished)