Test Definition: ALADW

Aminolevulinic Acid Dehydratase (ALA-D), Washed Erythrocytes

Reporting Title: ALA Dehydratase, RBC
Performing Location: Rochester

Specimen Requirements:

All porphyrin tests on erythrocytes can be performed on 1 draw tube.

Collection Container/Tube:
Preferred: Green top (sodium heparin)
Acceptable: Lavender top (EDTA) or green top (lithium heparin)
Submission Container/Tube: Plastic vial
Specimen Volume: Entire washed erythrocyte suspension
Collection Instructions:
1. Patient should abstain from alcohol for 24 hours.
2. Process entire specimen as follows:
a. Immediately place specimen on wet ice.
b. Transfer entire specimen to a 12-mL graduated centrifuge tube.
c. Centrifuge specimen for 10 minutes at 2,000 rpm.
d. Record volume of packed cells and the total volume of the specimen.
e. Discard supernatant plasma.
f. Wash packed erythrocytes 2 times by resuspension of at least an equal amount of cold 0.9% saline, mix, and centrifuge for 5 minutes at 2,000 rpm, discarding supernatant after each washing.
g. Resuspend packed cells to the original total volume with 0.9% saline. Invert specimen gently to mix.
Additional Information:
1. Volume of packed cells and total volume of erythrocyte suspension (red cells + saline) are required and must be sent with specimen.
2. Include a list of medications the patient is currently taking.
Forms:
1. New York Clients-Informed consent is required. Please document on the request form or electronic order that a copy is on file. An Informed Consent for Genetic Testing (Supply T576) is available in Special Instructions.
2. If not ordering electronically, submit a Biochemical Genetics Request Form (Supply T439) with the specimen.

Specimen Type	Temperature	Time
Washed RBC	Frozen	24 hours

Ask at Order Entry (AOE) Questions:

Test ID	Question ID	Description	Type	Reportable
ALADW	BG573	Total Cell Suspension	Plain Text	Yes
ALADW	BG574	Packed Cell Volume	Plain Text	Yes

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
31946	ALA Dehydratase	Numeric	nmol/L/sec	2813-4
31948	Interpretation	Alphanumeric		59462-2
BG573	Total Cell Suspension	Alphanumeric		In Process
BG574	Packed Cell Volume	Alphanumeric		In Process

CPT Code: 1 × 82657

Reference Values:

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