Test Definition: PPFWE

Protoporphyrins, Fractionation, Washed Erythrocytes

Reporting Title: Protoporphyrins, Fractionation, 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: Metal free, lavender top (EDTA) or green top (lithium heparin)
Submission Container/Tube: Plastic vial
Specimen Volume: Washed erythrocyte suspension
Collection Instructions:
1. Patient should abstain from alcohol for 24 hours.
2. Collect and process whole blood 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. 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. 2. If not ordering electronically, submit a Biochemical Genetics Request Form (Supply T439) with the specimen.

Specimen Type	Temperature	Time
Washed RBC	Frozen	14 days

Ask at Order Entry (AOE) Questions:

Test ID	Question ID	Description	Type	Reportable
PPFWE	BG571	Total cell suspension	Plain Text	Yes
PPFWE	BG572	Packed cell volume	Plain Text	Yes

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
31932	Zinc-Complexed Protoporphyrin	Numeric	mcg/dL	2895-1
31933	Free Protoporphyrin	Numeric	mcg/dL	In Process
INTP6	Interpretation	Alphanumeric		N/A
BG571	Total cell suspension	Alphanumeric		In Process
BG572	Packed cell volume	Alphanumeric		In Process

CPT Code: 1 × 84202

Reference Values:

FREE PROTOPORPHYRIN
<20 mcg/dL packed cells

ZINC-COMPLEXED PROTOPORPHYRIN
<60 mcg/dL packed cells
See The Heme Biosynthetic Pathway in Special Instructions.