
Reporting Title: Porphyrins, QN, U**Performing Location:** Rochester**Ordering Guidance:**

This 24-hour urine test should be ordered when the specimen will not reach Mayo Clinic Laboratories (MCL) within 72 hours. If the specimen will reach MCL within 72 hours, order PQNRU / Porphyrins, Quantitative, Random, Urine.

Shipping Instructions:

Ship specimen in amber container to protect from light.

Necessary Information:

1. 24-Hour volume (in milliliters) is required.
2. Patient's sex is required.
3. Collection date and time should be documented upon completion of the 24-hour collection.
4. Include a list of medications the patient is currently taking.

Specimen Requirements:

Patient Preparation: Patient should not consume any alcohol for the 24 hours before, as well as during, specimen collection.

Supplies:

-Urine Container - Amber, 60-mL (T596)

-Sodium Carbonate, 5 gram (T272)

Container/Tube: Amber, 60-mL urine container

Specimen Volume: 20 to 50 mL

Collection Instructions:

1. Collect a 24-hour urine specimen.
2. Add 5 g of sodium carbonate as preservative at start of collection. This preservative is intended to achieve a pH above 7.
3. Do not substitute sodium bicarbonate for sodium carbonate.
4. The container should be refrigerated and protected from light as much as possible during collection. An aliquot should be frozen when collection is complete.

Additional Information: See Urine Preservatives-Collection and Transportation for 24-Hour Urine Specimens for multiple collections.

Specimen Minimum Volume:

15 mL

Forms:

If not ordering electronically, complete, print, and send a Biochemical Genetics Test Request (T798) with the specimen.

Urine Preservative Collection Options:

Note: The addition of preservative must occur prior to beginning the collection.

Ambient No

Refrigerate No

Frozen No

50% Acetic Acid No

Boric Acid No

Diazolidinyl Urea No

6M Hydrochloric Acid No

6M Nitric Acid No

Sodium Carbonate Required

Thymol No

Toluene No

**Protect specimen from light.

Specimen Type	Temperature	Time	Special Container
Urine	Frozen	7 days	LIGHT PROTECTED

Ask at Order Entry (AOE) Questions:

Test ID	Question ID	Description	Type	Reportable
PQNU	TM3	Collection Duration	Plain Text	Yes
PQNU	VL1	Urine Volume	Plain Text	Yes

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
TM3	Collection Duration	Alphanumeric		13362-9
VL1	Urine Volume	Alphanumeric		3167-4
29357	Uroporphyrin, Octa	Numeric	nmol/24 h	15096-1
29358	Heptacarboxylporphyrins	Numeric	nmol/24 h	25434-2
29359	Hexacarboxylporphyrins	Numeric	nmol/24 h	25438-3
29360	Pentacarboxylporphyrins	Numeric	nmol/24 h	25494-6
29361	Coproporphyrin, Tetra	Numeric	nmol/24 h	15041-7
29362	Porphobilinogen	Numeric	mcmol/24 h	14882-5
23403	Interpretation	Alphanumeric		59462-2

LOINC and CPT codes are provided by the performing laboratory.

Supplemental Report:

No

CPT Code Information:

84110-Porphobilinogen, quantitative

84120-Porphyrins, quantitation and fractionation

Reference Values:

UROPORPHYRINS (OCTACARBOXYL):

< or =30 nmol/24 hours

HEPTACARBOXYLPORPHYRINS:

< or =9 nmol/24 hours

HEXACARBOXYLPORPHYRINS:

< or =8 nmol/24 hours

PENTACARBOXYLPORPHYRINS:

< or =10 nmol/24 hours

COPROPORPHYRINS (TETRACARBOXYL)

Males: < or =230 nmol/24 hours

Females: < or =168 nmol/24 hours

PORPHOBILINOGEN:

< or =2.2 mcmol/24 hours