

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.
 - 7. **Do not substitute sodium bicarbonate for sodium carbonate.**
 - 3. 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.

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