

Porphyrins, Quantitative, Random, Urine

Test ID: PQNRU

Explanation: The reference value will be updated due to a conversion to alternative units of measure (mmol/mol Cr). An additional CPT code and collection requirements now apply. The test now includes aminolevulinic acid, with new resultable codes.

Current Reference Value
Uroporphyrins, Octacarboxyl: < or =30 nmol/L
Heptacarboxylporphyrins: < or =7 nmol/L
Hexacarboxylporphyrins: < or =2 nmol/L
Pentacarboxyporphyrins: < or =5 nmol/L
Coproporphyrin, Tetracarboxyl: < or =110 nmol/L
Porphobilinogen: < or =1.3 mcmol/L

New Reference Value
Uroporphyrins, Octacarboxyl: < or 3.1 mcmol/mol creatinine
Heptacarboxylporphyrins: < or =0.9 mcmol/mol creatinine
Hexacarboxylporphyrins: < or =0.3 mcmol/mol creatinine
Pentacarboxyporphyrins: < or =1.2 mcmol/mol creatinine
Coproporphyrin, Tetra:: < or =25.0 mcmol/mol creatinine
Porphobilinogen: < or =0.2 mmol/mol creatinine
Aminolevulinic Acid < or = 2.3 mmol/mol creatinine

Current Result Codes	
Result ID	Reporting Name
32332	Uroporphyrin, Octa
32333	Heptacarboxylporphyrins
32334	Hexacarboxylporphyrins
32335	Pentacarboxylporphyrins
32336	Coproporphyrin, Tetra
32337	Porphobilinogen
32338	Interpretation

New Result Codes	
Result ID	Reporting Name
32332	Uroporphyrin, Octa
32333	Heptacarboxylporphyrins
32334	Hexacarboxylporphyrins
32335	Pentacarboxylporphyrins
32336	Coproporphyrin, Tetra
32337	Porphobilinogen
623039	Aminolevulinic Acid, U
32338	Interpretation
623040	Reviewed By

Current Genetics Information

This test is preferred test during symptomatic periods for acute intermittent porphyria, hereditary coproporphyria, and variegate porphyria. The random urine collection for this test allows for the diagnosis to be established and treatment to be initiated quickly. However, this test should only be ordered when the specimen will be received at Mayo Clinic Laboratories within 72 hours of collection. If it will be longer, PQNU / Porphyrins, Quantitative, 24 Hour, Urine should be ordered and collection guidelines must be followed.

Testing includes porphobilinogen which is useful in the evaluation of the acute porphyrias.

This is the preferred test to begin assessment for congenital erythropoietic porphyria and porphyria cutanea tarda

New Genetics Information

This is the preferred test during symptomatic periods for acute intermittent porphyria, hereditary coproporphyria, and variegate porphyria. The random urine collection for this test allows for the diagnosis to be established and treatment to be initiated quickly. However, this test should only be ordered when the specimen will be received at Mayo Clinic Laboratories within 72 hours of collection. If it will be longer than 72 hours, both PQNU / Porphyrins, Quantitative, 24 Hour, Urine and ALAUR / Aminolevulinic Acid, Urine should be ordered and collection guidelines must be followed.

Testing includes porphobilinogen and aminolevulinic acid, which are useful in the evaluation of the acute porphyrias.

This is the preferred test to begin assessment for congenital erythropoietic porphyria and porphyria cutanea tarda.

Current Specimen Required

Patient Preparation: Patient **should not** consume any alcohol for the 24 hours before specimen collection.

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

Container/Tube: Amber, 60-mL urine container

Specimen Volume: 20 to 50 mL

Collection Instructions: Collect a random urine specimen.

New Specimen Required

Patient Preparation: Patient **must not** consume any alcohol for at least 24 hours before specimen collection.

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

Container/Tube: Amber, 60-mL urine container

Specimen Volume: 20 to 50 mL

Collection Instructions:

1. Collect a random urine specimen.
2. No preservative necessary but pH must be above 5.0. If pH is below 5.0, specimen will be rejected.
3. Specimens should be protected from light and frozen immediately following collection.

Current CPT Code

84110-Porphobilinogen, quantitative
84120-Porphyrins, quantitation and fractionation

New CPT Code

84110-Porphobilinogen, quantitative
84120-Porphyrins, quantitation and fractionation
82135- ALA Delta Random Urine

Questions

Contact Melissa Tricker-Klar, Laboratory Resource Coordinator at 800-533-1710.