Porphyrians, Quantitative, Random Urine

Number
120980

CPT
84120

Related Information
- Aminolevulinic Acid, Delta, 24-Hour Urine
- Aminolevulinic Acid, Delta, Random Urine
- Porphyrians, Quantitative, 24-Hour Urine
- Urine Testing: Preservative Quick Reference Chart

Synonyms
- Coproporphyrin ; Uroporphyrin

Test Includes
- Coproporphyrins I and III; uroporphyrins; hepatocarboxylporphyrins; hexacarboxylporphyrins; pentacarboxylporphyrins

Specimen
- Urine (random); protected from light

Volume
- 25 mL

Minimum Volume
- 5 mL

Container
- Amber plastic urine container; no preservative or 5 g/L sodium carbonate (Na₂CO₃) is acceptable. Do not use acid preservative.

Collection
- Use amber plastic urine cup and amber top; order LabCorp N0 20656. (If amber cups are unavailable, cover plastic container completely, top and bottom, with aluminum foil. Identify specimen with patient name directly on the container and on the outside of the aluminum foil. Secure with tape.)

Storage Instructions
- Refrigerate and protect from light.

Causes for Rejection
- Stored specimen not refrigerated; specimen exposed to light; acid preservative; pH <3

Reference Interval
- Coproporphyrin I: 0-15 µg/L
- Coproporphyrin III: 0-49 µg/L
- Heptacarboxylporphyrins: 0-2 µg/L
- Hexacarboxylporphyrins: 0-1 µg/L
- Pentacarboxylporphyrins: 0-2 µg/L
- Uroporphyrins: 0-20 µg/L

Use
- For initial evaluation of porphyrias. Use quantitative 24-hour porphyrins to follow up random
urine abnormal results. See Porphyrins, Quantitative, 24-Hour Urine [003194].

Limitations
See Porphyrins, Quantitative, 24-Hour Urine [003194].

Methodology
High-pressure liquid chromatography (HPLC) with fluorometric detection

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