
Lab Dept: Urine/Stool

Test Name: HYPEROXALURIA PANEL, URINE

General Information

Lab Order Codes: UHPU

Synonyms: N/A

CPT Codes: 82542 – Column chromatography/mass spectrophotometry; non-drug analytes, not elsewhere specified, qualitative or quantitative, each specimen

Test Includes: Glycolate, glycorate, oxalate, and 4-Hydroxy-2-Oxoglutarate (HOG) levels reported in mg/g creatinine.

Logistics

Test Indications: Useful for distinguishing between primary and secondary hyperoxaluria; distinguishing between primary hyperoxaluria types 1, 2, and 3, and secondary hyperoxaluria.

Lab Testing Sections: Urine/Stool - Sendouts

Referred to: Mayo Medical Laboratories (MML Test: HYOX)

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: Within 14 days

Special Instructions: See [Patient Preparation](#).

Specimen

Specimen Type: Urine, See [Patient Preparation](#):

Container: Plastic leak-proof urine container (no preservative)

Draw Volume: Entire Random urine collection

Processed Volume: 10 mL (Absolute minimum: 1.1 mL) random urine

Collection:	Routine random urine collection
Special Processing:	Lab Staff: Remove urine aliquot from a well-mixed specimen. Place aliquot into a 10 mL urine tube. No preservative. Freeze immediately. Store and ship at frozen temperatures. Forward promptly.
Patient Preparation:	Fasting overnight (12-14 hours, recommended). Have patient void the first-morning specimen, then collect specimen within 2 hours of the first-morning void while the patient continues to fast. Fluids are allowed.
Sample Rejection:	Specimens other than urine; mislabeled or unlabeled specimens; use of any preservative

Interpretive

Reference Range:

Analyte	Age	Range (mg/g creatinine)
Glycolate	< or =17 years:	<or =75
	> or =18 years:	<or =50
Glycerate	< or =31 days:	<or =75
	31 days – 4 years:	<or =75
	5 – 10 years:	<or =55
	> or =11 years:	<or =25
Oxalate	< or=6 months:	<or=400
	7 months – 1 year:	<or=300
	2 – 6 years:	<or=150
	7 – 10 years:	<or=100
	>or=11 years:	<or =75
4-Hydroxy-2-Oxoglutarate (HOG)	All ages:	<or =10

Interpretation:

Increased concentrations of oxalate and glycolate indicate Type I hyperoxaluria.

Increased concentrations of oxalate and glycerate indicate Type II hyperoxaluria.

Increased concentrations of oxalate and 4-hydroxy-2-oxoglutarate indicate Type III hyperoxaluria.

Increased concentrations of oxalate with normal concentrations of glycolate, glycerate and 4-hydroxy-2-oxoglutarate indicate secondary hyperoxaluria.

Critical Values:

N/A

Limitations:

Ascorbic acid will falsely elevate oxalic acid results.

Methodology:

Gas chromatography – Mass spectrometry (GC-MS)

References:

[Mayo Medical Laboratories](#) January 2018

Updates:

1/15/2018: Updated reference ranges.