

The Kennedy Krieger Institute

Genetics Laboratories
707 North Broadway
Baltimore, MD 21205

Hours of Operation: Monday - Friday 8:00am -5:00pm

Sample Requirements: Updated 07/06/2026

For patient samples already collected but not meeting the criteria listed below, contact the laboratory for further guidance.

Biochemical Genetics Section: 443-923-2782

Test Name	Sample Type	Volume	Preferred Specimen	Stability ambient		Stability refrigerated 4°C	Stability frozen -20°C			TAT	Cost	CPT Code	Comments:
Amino Acid Analysis	Plasma, CSF, Urine	0.5 mL (0.2 min)	Frozen	Sub-Optimal		Sub-Optimal	14 days, optimal			3-5 business days	\$185	82139	
Organic Acid Analysis	Urine, random, no preservative	5 mL	Frozen	Sub-Optimal		14 days	12 months			5-10 business days	\$200	83919	This test is performed on Tuesdays and Thursdays. Contact the laboratory for urgent testing
	CSF	1 mL											
<u>Organic Acid Quantification by Stable Isotope Dilution GC/MS or LC/MS</u>	Urine	5 mL	Frozen	Sub-Optimal		1 month	10 months			5-10 business days			
N-Acetylaspartic acid											\$175	83921	
3-Methylglutaconic acid											\$175	83921	
Mevalonic acid											\$175	83921	
Methylmalonic acid	Urine	1 mL	Frozen	Sub-Optimal		1 month	10 months			5-10 business days	\$175	83921	
Orotic acid	Urine	1 mL	Frozen	Sub-Optimal		7 days	1 month			5-10 business days	\$175	83921	
3-Methylglutaconic acid	Plasma	1 mL	Frozen	Sub-Optimal		1 month	10 months			5-10 business days	\$175	83921	
Methylmalonic acid		1 mL								3-5 business days	\$175	83921	
Guanidinoacetate and Creatine	Plasma	0.5 mL	Frozen	Sub-Optimal		7 days	12 months			5-10 business days	\$175	82542	This test is performed on Mondays
	Urine	1 mL	Frozen	Sub-Optimal		7 days	12 months				\$175	82542	
<u>Sterols</u>	Plasma	0.5 mL	Frozen	24 hours as whole blood		7 days	12 months			3-5 business days	\$175	82542	Sterol testing is performed on Wednesdays and Fridays. Contact the laboratory for urgent testing.
7-Dehydrocholesterol Plus Other Cholesterol Precursors											\$175	82542	
Cholestanol, Sitosterol, Campesterol	Plasma	0.5 mL	Frozen	24 hours as whole blood		1 month	12 months				\$175	82542	
7-Dehydrocholesterol, prenatal	Amniotic Fluid	5 mL (*contact lab if < 2 mL available)	Frozen	1 month		1 month	12 months				\$200	82542	
	CVS	5-10 mg direct tissue	Frozen	24 hours		1 month	12 months				\$200	82542	
Carnitine	Plasma	0.5 mL	Frozen	Sub-Optimal		21 days	60 days			5-10 business days	\$125	82379	Testing is performed on Wednesdays.
Acylcarnitine	Plasma	0.5 mL	Frozen	Sub-Optimal		64 days	92 days				\$185	82139	Contact the laboratory for urgent testing.