

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.

Peroxisomal Diseases Section: 443-923-2788

Test Name	sample type	volume	preferred specimen	stability whole blood ambient / refrigerated	stability plasma ambient	stability plasma refrigerated 4°C	stability plasma frozen 20°C	stability urine frozen -20°C	cause for rejection	TAT	Cost	CPT Code	Comments:
plasma very long chain fatty acids (includes phytanic and pristanic acids) (screen for peroxisomal disorders)	EDTA/Heparin plasma or whole blood; fasting/preprandial	1 mL plasma (min: 0.25mL); 1-3mL [†] whole blood	frozen plasma or serum	48hr*	1 week	1 month	3 months; >1 year in Nalgene / Nunc freezing vial	NA		7-10 business days	\$190	82726	* If RBC plasmalogen content and/or plasma pipecolic acid and/or very long chain fatty acids and/or lysoPC are ordered at the same time, all tests may be performed on a single sample of 3 mL whole EDTA blood. **Whole blood may be acceptable up to 4 days for fatty acid profiling or longer for other assays if no hemolysis, although within 48hr is ideal. **Frozen washed RBC may be accepted with prior arrangement
red blood cell plasmalogen content (screen for rhizomelic chondrodysplasia punctata)	EDTA whole blood	3mL [†] (min: 1.5mL)	<u>nonfrozen</u> whole blood only**	48-96hr*	NA	NA	NA	NA	frozen; hemolysis	10-14 business days	\$180	82542	
plasma total lipid fatty acid profile (C14 to C26 saturated, mono&polyunsaturated, trans, branched chain fatty acids, triene/tetraene ratio, essential fatty acids)	EDTA plasma or whole blood; fasting/preprandial	1 mL plasma (min: 0.25mL); 1-3mL whole blood	frozen plasma or serum	48hr*	24hr	48hr	3 months; >1 year in Nalgene / Nunc freezing vial	NA	gross hemolysis or gross lipemia	7-10 business days	\$250	82542	
red blood cell total lipid fatty acid profile (includes C14 to C26 saturated, mono&polyunsaturated fatty acids)	EDTA whole blood	3mL wh.blood (min: 1.5mL)	<u>nonfrozen</u> whole blood only**	48hr*	NA	NA	NA	NA	frozen; hemolysis	10-14 business days	\$250	82542	
plasma pipecolic acid	EDTA/Heparin plasma or whole blood; fasting/preprandial	1 mL plasma (min: 0.25mL); 1-3mL [†] whole blood	frozen plasma	48hr*	24hr	48hr	3 months; >1 year in Nalgene / Nunc freezing vial	NA		14 business days	\$230	82542	
urine pipecolic acid	random urine; clean	5mL (min: 1mL)	frozen urine	NA	NA	NA	NA	1 year		14 business days	\$230	82542	
C26:0-Lysophosphatidylcholine (lysoPC or LPC)	DBS; EDTA/Heparin plasma or whole blood	3cm DBS; 0.1mL plasma 1-3mL [†] whole blood	frozen plasma	1 month	1 month	6 months	3 months; >1 year in Nalgene / Nunc freezing vial	NA		14 business days	\$125	82542	