

Peroxisomal (C22-C-26) Fatty Acid Profile, Serum

Order Name: Peroxisomal FA

Test Number: 6905961

Revision Date: 06/08/2025

TEST NAME	METHODOLOGY	LOINC CODE
Peroxisomal (C22-C-26) Fatty Acid Profile, Serum	Gas Chromatography/Mass Spectrometry (GC/MS)	

SPECIMEN REQUIREMENTS				
Specimen	Specimen Volume (min)	Specimen Type	Specimen Container	Transport Environment
Preferred	3 mL (1 mL)	Plasma	EDTA (Lavender Top)	Room Temperature
Instructions	<p><b>Specimen Type:</b> Lavender-top (EDTA) tube, gel-barrier tube or green-top (heparin) tube</p> <p><b>Specimen Storage:</b> Maintain specimen at room temperature</p> <p><b>Special Instructions:</b> Testing referred to Kennedy Krieger Lab K@#- This test should not be used by New York residents.</p> <p><b>Specimen Stability:</b> Room temperature: 7 days, Refrigerated: 1 month and Frozen: 3 months.</p>			

GENERAL INFORMATION	
Clinical Use	Peroxisomes play a vital role in several metabolic pathways, including the synthesis of plasmalogens and bile acids. They are also involved in the catabolism of Very Long Chain Fatty Acids (VLCFAs), phytanic acid, and pristanic acid. Defects in these pathways usually result in the accumulation in tissues and body fluids of one or more metabolites derived from the blocked metabolic steps. Specific accumulations are used for the differential biochemical diagnosis of numerous peroxisomal disorders. These disorders include (A) Zellweger spectrum disorders of peroxisomal biogenesis, (B) X-linked adrenoleukodystrophy (X-ALD) and its adult form X-linked adrenomyeloneuropathy (X-AMN), (C) Refsum disease (Phytanoyl-CoA hydroxylase Deficiency), and (D) 2-methylacyl-CoA racemase deficiency
Performing Labcorp Test Code	831503
CPT Code(s)	82726
Lab Section	Reference Lab