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

Specimen Type: Lavender-top (EDTA) tube, gel-barrier tube or green-top (heparin) tube
Specimen Storage: Maintain specimen at room temperature
Special Instructions: Testing referred to Kennedy Krieger Lab K@#- This test should not be used by New York residents.
Specimen Stability: Room temperature: 7 days, Refrigerated: 1 month and Frozen: 3 months.

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

CPT Code(s)

82726

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