

LONG CHAIN  
FATTY ACIDS,  
SERUM/  
PLASMA

## Orderable - LCFA

Turnaround Time: 15 days

### Alternate Name(s):

C24/C22 Long Chain Fatty Acid Ratio  
C26/C22 Long Chain Fatty Acid Ratio  
C26:0 Long Chain Fatty Acid Concentration  
Very Long Chain Fatty Acids  
LCFA  
VLCFA

### Specimen:

4 mL K<sub>2</sub> or K<sub>3</sub> EDTA Lavender top Vacutainer tube  
or  
5 mL Gold top Vacutainer

### Collection Information:

Minimum volume of serum or plasma required is 1.5 mL.

Spin and aliquot serum or plasma and freeze immediately and send to the lab.

Preferably patient should be fasting.

### Reference Ranges:

C24/C22 Ratio	0-1.094
C26/C22 Ratio	0-0.0350
C26:0 Concentration	0-1.466 umol/L

### Interpretive Comments:

This is a screening test for X-linked adrenoleukodystrophy. Affected males will have elevated parameters. Heterozygous females usually have elevated parameters, but they are often in the upper normal range. Other peroxisomal diseases may also be detected by this test (elevated parameters).



**Laboratory:**  
Toxicology/Special  
Chemistry Lab



**Requisition:**  
GENERAL LABORATORY  
REQUISITION



**Method of Analysis:**  
Gas Chromatography



**Test Schedule:**  
Once per week

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**Storage and Shipment:**

Separate and freeze. Ship frozen and do not allow time to thaw.