

STEROL PROFILE, SERUM

Orderable – STEROL

Turnaround Time: 30 days

Alternate Name(s):

7-Dehydrocholesterol

Specimen:

Adult:	Pediatric:
6 mL Red top Vacutainer tube	0-2 years: 2 x 0.5 mL Red top Microtainers 2-10 years: 3 mL Red top Vacutainer tube
Gel separator tubes (e.g. gold top) are NOT acceptable	

Collection Information:

Minimum volume required is 0.5 mL of serum.

Minimum volume required for pediatric sample is 0.2 mL.

Fasting specimen preferred.

Protect specimen from light.

Specimen must be labelled inside and outside light-protecting wrap.

Reference Ranges:

STEROL PROFILE	REFERENCE INTERVAL	CLINICAL ELEVATION
Analyte	umol/L	(elevation)
7-dehydrocholesterol	(0.3 - 2.2)	SLOS
8-dehydrocholesterol	(0.2 - 3.7)	SLOS
cholestanol	(0.0 - 8.6)	CTX
desmosterol	(0.5 - 6.7)	desmosterolosis
lanosterol	(0.0 - 0.7)	Antley-Bixler syndrome-1
lathosterol	(0.0 - 0.0)	lathosterolosis



Laboratory:
Core Lab



Requisition:
GENERAL LABORATORY
REQUISITION



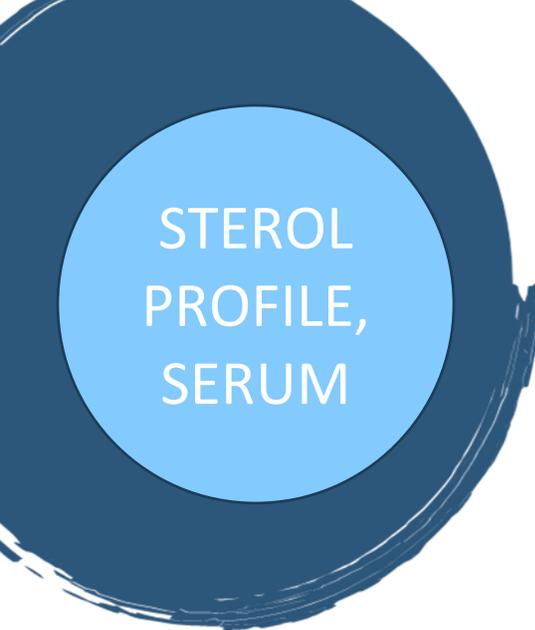
Method of Analysis:
Liquid Chromatography-
Mass Spectrometry
(LC/MS)



Test Schedule:
Referred out Monday-
Thursday



Referred Out Location:
[In-Common Laboratories](#)


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sitosterol	(1.7 - 34.7)	sitosterolemia
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Notes: Cholestanol is 5 α -cholestan-3 β -ol. CTX is cerebrotendenous xanthomatosis. Lanosterol may be elevated in Antley-Bixler syndrome-1. Cholesterol biosynthesis disorders present with multiple congenital anomalies (most) or neurological symptoms with xanthomas (CTX). Sitosterol is elevated in sitosterolemia, which presents with xanthomas and accelerated atherosclerosis.

Storage and Shipment:

Send sample frozen and keep protected from light at all times.