

THEOPHYLLINE,
SERUM

Orderable - THEO

Turn Around Time: 3 days

Alternate Name(s):

Aminophylline
Theo-Dur
Somophyllin
Elixophyllin
Xanthine

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

Collection Information:

Minimum volume of serum required is 0.5 mL.

Avoid gel-separator tubes.

Draw specimens at trough concentration prior to next regular dose.

Peak concentration is obtained 2 hours post oral dose.

Steady state is achieved during continuous IV therapy.

In premature infants and some neonates, the active metabolite caffeine may require simultaneous monitoring.

Separate as soon as possible. Repeated freezing and thawing of samples should be avoided.

Grossly hemolyzed or icteric specimens will not be tested.

Reference Ranges:

55 - 110 $\mu\text{mol/L}$
Toxic: >110 $\mu\text{mol/L}$ <i>Critical Value to be phoned to nurse or physician immediately</i>

Comments:



Laboratory:
Core Lab



Requisition:
GENERAL LABORATORY
REQUISITION



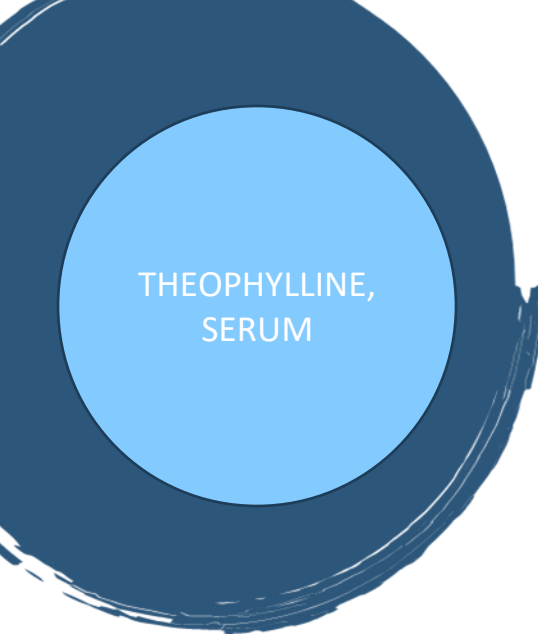
Method of Analysis:
KIMS (Immunoassay)



Test Schedule:
Referred out Monday –
Thursday



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



THEOPHYLLINE, SERUM

Bronchodilator drug used in treatment of reversible bronchoconstriction.
Aminophylline is a salt of Theophylline (80-85% by weight of this salt is Theophylline).

Specimen Stability:

Ambient: 8 hours
Refrigerated: 7 days
Frozen: 2 months

Storage and Shipment:

Store and ship serum frozen.