

PENTOBARBITAL  
SERUM

# Orderable - PENTO

Turn Around Time-STAT: 8 hours

## Alternate Name(s):

Nembutal

## Specimen:

Adult	Pediatric
6 mL Red top Vacutainer tube or 6 mL Dark Green (Sodium Heparin) or Lithium Heparin top Vacutainer tube	0-2 years: 0.5 mL Green top Microtainer

## Collection Information:

Minimum volume of serum or Heparin or Citrate plasma required is 1.2 mL. Authorization by On-Call Biochemist required. Hospital for Sick Children's requisition required to be completed by physician.

## Reference Ranges:

Hypnotic:	4 - 22 µmol/L
Toxic:	>40 µmol/L
Therapeutic Coma:	90 - 220 µmol/L

All results must be phoned

## Special Processing:

### For SRA:

Samples can be received at VH or UH Core Lab but results will always be returned to VH Core Lab to be entered by technologist at VH.



**Laboratory:**  
Core Lab



**Requisition:**  
[Sick Kids: Therapeutic Drug Monitoring Requisition](#)



**Method of Analysis:**  
Kinetic Interaction of Microparticles in a Solution (KIMS)



**Test Schedule:**  
Send STAT by All Canadian Courier to Hospital for Sick Children (Sick Kids). Test must be sent immediately. Include Hospital for Sick Children's requisition and PaLM worksheet with instructions to fax and phone results to the **VH Core Lab**.

Tel: 519-685-8500 x 52573  
Fax: 519-685-8360



## PENTOBARBITAL SERUM

Call Sick Kids (416-813-5906) and tell them there is a STAT specimen for Pentobarbital testing.

Send completed Sick Kids requisition, with work list. Ensure that phone and fax numbers for VH Core Lab are clearly written on the work list so results can be returned to the VH Core Lab.

### Work List:

VH Refo to HSC  
UH Refo to HSC

### Contact information for VH Core Lab:

**Tel: 519-685-8500 x 52573**  
**Fax: 519-685-8630**

Call All Canadian Courier and tell them there is a STAT specimen to send to Hospital for Sick Children, Toronto.

Let the VH Core Chemistry MLT know that a sample has been sent for Pentobarbital testing and that results will be faxed back to the VH Core Lab when testing is completed.

### Storage and Shipment:

Spin and aliquot serum. Ship specimen with ice packs.



### **Referred Out Location:**

SickKids  
Toxicology & Therapeutic  
Drug Monitoring Service  
Room 3642, Atrium  
555 University Avenue  
Toronto ON  
M5G 1X8  
Canada  
Tel: 416-813-5906  
Fax: 416-813-6211