Lab Dept: Chemistry Test Name: PHENOBARBITAL LEVEL **General Information** Lab Order Codes: PHB Synonyms: Luminal, PHB **CPT Codes:** 80184 - Phenobarbital **Test Includes:** Phenobarbital concentration reported in ug/mL. Logistics **Test Indications:** Useful for therapeutic drug monitoring (TDM). Phenobarbital is used in the treatment of seizures. It is particularly useful for treatment of generalized tonic-clonic, partial, focal motor, temporal lobe and febrile seizures. Lab Testing Sections: Chemistry **Phone Numbers:** MIN Lab: 612-813-6280 STP Lab: 651-220-6550 **Test Availability:** Daily, 24 hours **Turnaround Time:** 2 hours Special Instructions: Peak concentrations are reached several hours after a single large dose. The half-life ranges from 53 to 140 hours. Specimen Specimen Type: Blood **Container:** Green top (Li Heparin) tube, preferred Alternate tube: Red, marble or gold top tube **Draw Volume:** 0.6 mL blood **Processed Volume:** 0.2 mL serum/plasma Collection: Routine blood collection. Mix tubes containing anticoagulant by gentle inversion.

Special Processing:	Lab Staff: Centrifuge specimen, remove serum/plasma aliquot into a plastic sample cup. Store at refrigerated temperatures.
Patient Preparation:	None
Sample Rejection:	Mislabeled or unlabeled specimen
Interpretive	
Reference Range:	Therapeutic concentration: 15 - 40 ug/mL
Critical Values:	>60 ug/mL
Limitations:	N/A
Methodology:	Particle Enhanced Turbidimetric Inhibition Immunoassay (PETINIA)
References:	Abbott Alinity c Phenobarbital Reagent Kit Instructions for Use (July 2018) Abbott Laboratories Diagnostics Division, Abbott Park, IL, 60064 USA
	Abbott Alinity c Multiconstituent Calibrator Package Insert (July 2018) Abbott Laboratories Diagnostics Division, Abbott Park, IL, 60064, USA
	Bio-Rad Liquichek Immunoassay Plus Package Insert, Bio-Rad Laboratories, Irvine, CA, 92618, USA
	Jacobs & DeMott Laboratory Test Handbook (2001) Lexi-Comp, Inc, Hudson, OH, 5th Edition
	Bio-Rad Liquichek Unassayed Chemistry Control (Human) Product Insert, Bio-Rad Laboratories, Irvine, CA, 92618, USA
Updates:	5/1/2005: Critical value changed, previously listed as >50 ug/mL. 2/9/2016: Update alt tube type 12/8/2020: Updated for method Abbott Alinity, method Siemens Vista removed