

Client: Example Client ABC123
123 Test Drive
Salt Lake City, UT 84108
UNITED STATES

Physician: Doctor, Example

Patient: Patient, Example

DOB: 10/27/1986
Gender: Female
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
Collection Date: 00/00/0000 00:00

Phenytoin, Free and Total

ARUP test code 0090141

Phenytoin - Free Level **0.6 ug/mL** L (Ref Interval: 1.0-2.5)

Phenytoin - Total **8.5 ug/mL** L (Ref Interval: 10.0-20.0)

Phenytoin - Percent Free **7.0 %** L (Ref Interval: 8.0-14.0)

INTERPRETIVE INFORMATION: Phenytoin, Free And Total

Phenytoin - Total
Therapeutic: 10.0-20.0 ug/mL

Toxic: Greater than 30.0 ug/mL

Phenytoin - Free Level
Therapeutic: 1.0-2.5 ug/mL

Toxic: Greater than 2.5 ug/mL

Phenytoin - Percent Free
8.0-14.0%

The therapeutic range is based on serum pre-dose (trough) draw at steady-state concentration. Free phenytoin may be important to monitor in patients with altered or unpredictable protein binding capacity because phenytoin is highly bound (greater than 90 percent) at therapeutic concentrations. Phenytoin is also subject to drug-drug interactions due to displacement of protein binding and extensive metabolism. Cross-reactivity with metabolites may account for differences in phenytoin concentrations among analytical methods. Calculating percent free attempts to minimize differences in assay cross-reactivity and may be useful in dose optimization.

H=High, L=Low, *=Abnormal, C=Critical

VERIFIED/REPORTED DATES				
Procedure	Accession	Collected	Received	Verified/Reported
Phenytoin - Free Level	22-178-132033	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Phenytoin - Total	22-178-132033	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Phenytoin - Percent Free	22-178-132033	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00

END OF CHART

H=High, L=Low, *=Abnormal, C=Critical

Unless otherwise indicated, testing performed at:

ARUP LABORATORIES | 800-522-2787 | aruplab.com
500 Chipeta Way, Salt Lake City, UT 84108-1221
Jonathan R. Genzen, MD, PhD, Laboratory Director

Patient: Patient, Example
ARUP Accession: 22-178-132033
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
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