

PHENYTOIN, TOTAL AND FREE, SERUM
#500021

NOTE: The testing and reporting is equivalent to Rochester test Phenytoin, Total and Free, Plasma (9993).

USEFUL FOR:

- Monitoring for appropriate therapeutic concentration
- Assessing toxicity

METHODOLOGY: Enzyme-multiplied immunoassay technique (EMIT)

REFERENCE VALUES:

Phenytoin, Total

Therapeutic concentration: 10-20 ug/mL

Toxic concentration: > or = 30 ug/mL

Phenytoin, Free

Therapeutic concentration: 1.0-2.0 ug/mL

Toxic concentration: > or = 2.5 ug/mL

SPECIMEN REQUIREMENTS: Draw blood in a plain, red-top tube(s) or a serum gel tube(s). Spin down and send 1 mL of serum refrigerated.

CAUTIONS:

- Toxicity is a constant possibility because of the manner in which phenytoin is metabolized.
- Small increases in dose can lead to very large increases in blood concentration, resulting in early signs of toxicity such as nystagmus, ataxia, and dysarthria.
- Severe toxicity occurs when the blood concentration is >30 ug/mL and is typified by tremor, hyperreflexia, lethargy, and coma.

LIST FEE: \$ 162.20

CPT CODE: 80185/Total
80186/Free

ANALYTIC TIME: 1 day

DAY(S) SET UP: Monday through Friday, Sunday

QUESTIONS: Contact your Mayo Medical Laboratories' Regional Manager
Mary Erath, Mayo Medical Laboratories' Technologist Support
Telephone: 800-533-1710



MAYO CLINIC
 Mayo Medical Laboratories

TEST DEFINITION

6/5/2009

CODE NAME

 500021 PHENYTOIN, TOTAL AND FREE, S

ORDER CODE	EFF DATE	TC	TITLE	CHECKING NORMALS	PRINT NORMALS (# CODED)	PERFORM SITE *
500021 (PROFILE)			PHENYTOIN, TOTAL AND FREE, S			
500225	1/9/2008		PHENYTOIN, FREE, S			NEL
		11265	PHENYTOIN, FREE, S	TRANSPORT TEMP : REFRIG\FROZEN OK\AMBIENT OK		
			UNITS: UG/ML			
			NO SEX			
			ALL AGES : 1.0-2.0		; #N11265	
			MALE			
			ALL AGES : 1.0-2.0		; #N11265	
			FEMALE			
			ALL AGES : 1.0-2.0		; #N11265	
500570	1/9/2008		PHENYTOIN, TOTAL, S			NEL
		11975	PHENYTOIN, TOTAL, S	TRANSPORT TEMP : REFRIG\FROZEN OK\AMBIENT OK		
			UNITS: UG/ML			
			NO SEX			
			ALL AGES : 10.0-20.0		; 10.0-20.0	
			MALE			
			ALL AGES : 10.0-20.0		; 10.0-20.0	
			FEMALE			
			ALL AGES : 10.0-20.0		; 10.0-20.0	

*PERFORMING SITE LEGEND

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NEL      MAYO MEDICAL LABORATORIES NEW ENGLAND      LAB DIRECTOR:  LYNN A. CHERYK, PH.D.
          160 DASCOMB ROAD
          ANDOVER, MA 01810
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LABORATORY SERVICE REPORT

1-800-533-1710

PATIENT NAME CT-TEST, LOWEST-RPT		PATIENT NUMBER		AGE NOT GI	SEX	ACCESSION # G9127933
ORDERING PHYSICIAN		CLIENT ORDER #				ACCOUNT # STUSTEST
COLLECTION 05/27/09 11:31 A	RECEIVED	REPORT PRINTED 06/04/09 03:50 P		SPECIMEN INFORMATION DATE OF BIRTH:		
DATE TIME	DATE TIME	DATE TIME	DATE TIME			
STUSTEST Attn: 200 First Street SW Rochester, MN 55905-0001 507-284-3608						

TEST REQUESTED	HI LO		REF RANGE	PERFORM SITE *
Phenytoin, Total and Free, S				
Phenytoin, Free, S	L	0.5	ug/mL	NEL
-- EXPECTED VALUES --				
1.0-2.0 (Toxic >=2.5)				
Phenytoin, Total, S	L	<1.0	ug/mL	10.0-20.0 NEL

* PERFORMING SITE

NEL	Mayo Medical Laboratories New England 160 Dascomb Road Andover, MA 01810	Lab Director: Lynn A. Cheryk, Ph.D.
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PATIENT NAME CT-TEST, LOWEST-RPT	ORDER STATUS Final	COLLECTION DATE AND TIME 05/27/09 11:31 A
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Specimen receipt and report times are in CST/CDT

REPRINT

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