

Theophylline



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| Alternate Name: | Aminophylline |
| Performing Lab: | New Hanover |
| Specimen Container: | Red top tube |
| Minimum Volume Required: | 1.0 mL |
| Testing Availability | Routine: 24 hours/day Stat: Yes |
| Turnaround Time: | Routine: 4 hours Stat: < 1 hour |
| Special Handling: | Oral dose: Draw 4 hours after dose Slow Release: Draw 2 hours after dose |
| Patient Preparation: | Avoid caffeine 24 hours prior |
| Specimen Stability: | |
| Reference Range: | 10 – 20 ug/mL |
| Critical Value: | > 20 ug/mL |
| CPT Code: | 80198 |
| Testing Methodology: | Turbidimetric – Rate |
| Causes for Specimen Rejection: | Improper labeling |
| Other Comments: | |
| Clinical Significance: | Theophylline is prescribed for bronchial asthma, for chronic obstructive pulmonary disease, and for newborn apnea. The drug is extensively metabolized with peak serum levels reached four hours after oral dose. |