

ACETAMINOPHEN

Orderable - ACETA

Turnaround Time: 4 hours

STAT: 1 hour

Alternate Name(s):

Tylenol
Temptra
Paracetamol

Specimen:

Adult	Pediatric
4.5 mL Green top Vacutainer	0-2 years: Green 0.6 mL Microtainer 2-10 years: 2 mL Green top Vacutainer tube

Collection Information:

Collect blood aseptically in a Vacutainer tube.

Serum from a 5 mL Gold top or 6 mL Red top Vacutainer tube is also acceptable.

Reference Ranges:

Therapeutic¹:	
66-199 µmol/L	
Toxic Levels²:	
4 hours after ingestion:	>1324 µmol/L
8 hours after ingestion:	>662 µmol/L
12 hours after ingestion:	>331 µmol/L
Please interpret acetaminophen results with great caution as bilirubin has been found to significantly interfere with this method (artificially elevates the results)	

References:

- 1) Jacobs DS, De Mott WR, Oxley DK. Laboratory Test handbook with Key Word Index 5th ed Hudson, Ohio:Lexi-Comp, Inc 2001:778-779
- 2) Rumack BH. Acetaminophen overdose. Arch Internal Med 1981;141:380-385



Laboratory:
Core Lab



Requisition:
GENERAL LABORATORY
REQUISITION



Method of Analysis:
Enzymatic rate



Test Schedule:
As required



ACETAMINOPHEN

Interpretive Comments:

A non-salicylate analgesic-antipyretic drug. When serum concentrations are above these values at the specified times following the time of ingestion, the patient is at risk of liver damage and antidotal therapy with N-acetylcysteine should be instituted.