**Lab Dept:** Chemistry  
**Test Name:** IBUPROFEN LEVEL

### General Information

**Lab Order Codes:** IBUP  
**Synonyms:** Advil®, Motrin®, Nuprin®, Rufen®  
**CPT Codes:** G0480 – Drug, test, definitive  
**Test Includes:** Ibuprofen level reported in ug/mL.

### Logistics

**Test Indications:** Anti-inflammatory, Analgesic therapeutic drug monitoring  
**Lab Testing Sections:** Chemistry - Sendouts  
**Referred to:** MedTox Laboratories (MedTox Test: 58)  
**Phone Numbers:** MIN Lab: 612-813-6280  
STP Lab: 651-220-6550  
**Test Availability:** Daily, 24 hours  
**Turnaround Time:** 3 days  
**Special Instructions:** Trough levels are most reproducible; serial levels in treatment of cystic fibrosis.

### Specimen

**Specimen Type:** Blood  
**Container:** Red top NO GEL tube  
Alternate: Green top NO GEL (Li Heparin) tube  
**Draw Volume:** 3 mL (Minimum: 0.5 mL) blood  
**Processed Volume:** 1 mL (Minimum: 0.1 mL) serum/plasma  

Note: Submission of the minimum volume results in an elevated reporting limit and inability to repeat analysis.
**Collection:** Routine venipuncture

**Special Processing:** Lab Staff: Centrifuge specimen, remove serum/plasma aliquot into a screw-capped round bottom plastic vial. Store and ship at refrigerated temperatures.

**Patient Preparation:** None

**Sample Rejection:** Mislabeled or unlabeled specimens

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**Interpretive**

**Reference Range:** 10.0 – 50.0 ug/mL

**Critical Values:** >500 ug/mL

**Limitations:** Reporting limit: 1.0 ug/mL

**Methodology:** High Performance Liquid Chromatography with Ultraviolet Detection (HPLC-UV)

**References:** Medtox Laboratories Web Page December 2017

**Updates:**
- 1/5/2015: CPT update
- 2/4/2016: CPT update
- 11/16/2016: Update CPT, tube to NO GEL