

---

**Lab Dept:** Chemistry

**Test Name:** FENTANYL LEVEL

---

***General Information***

**Lab Order Codes:** FEN

**Synonyms:** Innovar®, China white, Sublimaze®

**CPT Codes:** G0480 – Drug, test, definitive

**Test Includes:** Fenatanyl level reported in ng/mL.

---

***Logistics***

**Test Indications:** Monitoring Fentanyl (narcotic analgesic) levels

**Lab Testing Sections:** Chemistry - Sendouts

**Referred to:** MedTox Laboratories (MedTox Test: 19840)

**Phone Numbers:** MIN Lab: 612-813-6280

STP Lab: 651-220-6550

**Test Availability:** Daily, 24 hours

**Turnaround Time:** 1 day

**Special Instructions:** N/A

---

***Specimen***

**Specimen Type:** Blood

**Container:** Red top NO GEL tube  
Alternate: Green top NO GEL (Li Heparin) tube

**Draw Volume:** 9 mL (Minimum: 2 mL) blood

**Processed Volume:** 3 mL (Minimum: 0.7 mL) serum/plasma

**Note:** Submission of the minimum volume results in an elevated reporting range and inability to repeat analysis.

**Collection:** Routine venipuncture

|                             |   |
|-----------------------------|---|
| <b>Special Processing:</b>  | Lab Staff: Centrifuge specimen, remove serum/plasma aliquot into a screw-capped round bottom plastic vial. Store and ship at refrigerated temperatures. Forward promptly. |
| <b>Patient Preparation:</b> | None  |
| <b>Sample Rejection:</b>    | Mislabeled or unlabeled specimens   |

---

### ***Interpretive***

|                         |   |
|-------------------------|---|
| <b>Reference Range:</b> | Therapeutic range for analgesia: 1 - 3 ng/mL  |
| <b>Critical Values:</b> | >34 ng/mL without respiratory assistance<br><br>Observed concentrations during respiratory - assisted anesthesia: <200 ng/mL                      |
| <b>Limitations:</b>     | Reporting limit: 0.1 ng/mL  |
| <b>Methodology:</b>     | Immunoassay (IA)<br><br>Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS)   |
| <b>References:</b>      | <a href="#">MedTox Web Page</a> (November 2014)   |
| <b>Updates:</b>         | 5/6/2010: CPT update, previously reported as 83925.<br>8/10/2015: CPT update, previously reported as 82542.<br>11/2/2016: Tube update, CPT update |