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

### General Information

- **Lab Order Codes:** LIDO  
- **Synonyms:** Xylocaine®  
- **CPT Codes:** 80176 - Lidocaine  
- **Test Includes:** Lidocaine level reported in ug/mL.

### Logistics

- **Test Indications:** Assessing optimal dosing during the acute management of ventricular arrhythmias following myocardial infarction or during cardiac manipulation during surgery. Assessing potential toxicity.  
- **Lab Testing Sections:** Chemistry - Sendouts  
- **Referred to:** MedTox Laboratories (MedTox Test: 60)  
- **Phone Numbers:**  
  - MIN Lab: 612-813-6280  
  - STP Lab: 651-220-6550  
- **Test Availability:** Daily, 24 hours  
- **Turnaround Time:** 1 day, performed daily  
- **Special Instructions:** N/A

### Specimen

- **Specimen Type:** Blood  
- **Container:** Red top NO GEL tube  
  - Alternate: Green top NO GEL (Lithium heparin) tube  
- **Draw Volume:** 3 mL (Minimum: 1.5 mL) blood  
- **Processed Volume:** 1 mL (Minimum: 0.5 mL) serum/plasma  
- **Collection:** Routine venipuncture
**Special Processing:** Lab Staff: Centrifuge specimen, remove plasma aliquot into a screw-capped round bottom plastic vial. Store and ship at refrigerated temperatures. Forward promptly.

**Patient Preparation:** None

**Sample Rejection:** Gross hemolysis; mislabeled or unlabeled specimens

### Interpretive

**Reference Range:** 1.2 – 6.0 mcg/mL

**Critical Values:** >6.0 mcg/mL

**Limitations:** N/A

**Methodology:** Immunoassay (IA)

**References:** [MedTox Laboratories](#) December 2012

**Updates:**

- 1/14/2010: Plasma samples no longer accepted. Units change from ug/mL to mcg/mL.
- 11/4/2016: Tube update