Lab Dept: Chemistry

Test Name: AMIODARONE LEVEL

General Information

Lab Order Codes: AMI

Synonyms: Cordarone®; Desethylamiodarone

CPT Codes: G0480 – Drug, test, definitive

Test Includes: Amiodarone and Desethylamiodarone concentrations in ng/mL.

Logistics

Test Indications: This test is useful for monitoring adequacy of blood concentration during Amiodarone therapy. The test may also be useful to evaluate patient compliance.

Lab Testing Sections: Chemistry - Sendouts

Referred to: MedTox Laboratories (Test# 10)

Phone Numbers: MIN Lab: 612-813-6280

                      STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 1 – 2 days, test set up daily

Special Instructions: Trough levels should be obtained no less than 12 hours after the last dose.

Specimen

Specimen Type: Blood

Container: Red top, NO GEL tube

Alternate: Green, NO GEL top tube

Draw Volume: 6 mL (Minimum: 1 mL) blood
**Processed Volume:** 2 mL (Minimum: 0.3 mL) serum/plasma

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

**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:** Mislabeled or unlabeled specimens

### Interpretive

**Reference Range:**

<table>
<thead>
<tr>
<th>Compound</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amiodarone</td>
<td>1000 – 2500 ng/mL</td>
</tr>
<tr>
<td>Desethylamiodarone</td>
<td>No reference range available</td>
</tr>
</tbody>
</table>

**Critical Values:**

<table>
<thead>
<tr>
<th>Compound</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amiodarone</td>
<td>≥5000 ng/mL</td>
</tr>
<tr>
<td>Desethylamiodarone</td>
<td>No critical value</td>
</tr>
</tbody>
</table>

**Limitations:**

- Amiodarone: Reporting limit 100 ng/mL
- Desethylamiodarone: Reporting limit 100 ng/mL

**Methodology:** High Performance Liquid Chromatography (HPLC)

**References:** [MedTox Laboratories Web Page](http://www.medtox.com) (January 2015)

**Updates:**

- 3/8/2004: Test moved from MedTox Laboratories to Mayo Medical Laboratories. Note: Change in units from ng/mL to µg/mL.
- 5/31/2006: Test moved from Mayo Medical Laboratories to MedTox Laboratories. Note: Change in units from µg/mL to ng/mL. Tube type change from Lavender to Green/Red.
- 7/14/2010: Added minimum draw volume.
- 1/5/2015: CPT update
- 4/13/2015: Reference range update by MedTox, previously listed as 500-2500 ng/mL.
- 2/2/2016: CPT update
- 11/4/2016: Tube update, CPT update