

---

**Lab Dept:** Urine/Stool

**Test Name:** AMYLASE, TIMED COLLECTION, URINE

---

***General Information***

**Lab Order Codes:** UAMT

**Synonyms:** N/A

**CPT Codes:** 82150 – Amylase

**Test Includes:** Amylase concentration in U/L and amylase level as Units excreted/hour.

---

***Logistics***

**Test Indications:** Assessment of acute rejection of bladder-drained pancreas transplants.  
As an aid in the diagnosis of acute pancreatitis

**Lab Testing Sections:** Urine/Stool - Sendouts

**Referred to:** Mayo Medical Laboratories (Test# AMSU)

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

STP Lab: 651-220-6550

**Test Availability:** Daily, 24 hours

**Turnaround Time:** 1 – 3 days

**Special Instructions:** See specimen [Collection](#) for important information.

---

***Specimen***

**Specimen Type:** Urine

**Container:** Plastic leakproof container (No preservative)

**Draw Volume:** 5 mL (Absolute Minimum: 1 mL)

**Processed Volume:** Same as Draw Volume

<b>Collection:</b>	2-Hour urine collection, void ** <b>Collection Instructions:</b> 1. The patient should have nothing by mouth except water between the hours of 6 PM and 10 AM 2. Drink 3 or more 8-ounce glasses of water between 7:30 AM & 8:30 AM. Half of this amount should be ingested between 7:30 AM. and 8 AM. The second half should be ingested at 8:30 AM. 3. The bladder should be completely emptied at 8 AM. This urine is discarded. 4. Collect all urine after 8 AM in container supplied. 5. The collection ends at 10 AM. include the 10 AM void in the collection container.
<b>Special Processing:</b>	Lab Staff: Measure and record the 2-hour volume. Overlay urine with toluene (5 mL), and send aliquot in a plastic tube (Mayo supply T465). If no toluene is available, refrigerate specimen during collection, and send the aliquot specimen frozen. Record the date and time (the exact start and completion times of the 2-hour collection) on the container label. Forward promptly.
<b>Patient Preparation:</b>	The patient should have nothing by mouth except water between the hours of 6 PM. and 10 AM.
<b>Sample Rejection:</b>	Mislabeled or unlabeled specimens

---

### ***Interpretive***

<b>Reference Range:</b>	3-26 U/hour <b>Interpretation:</b> Urinary amylase is elevated in acute pancreatitis, but the test has poor sensitivity and specificity. Decreases in urinary amylase excretion of greater than 30% to 50%, relative to baseline values, may be associated with acute pancreas allograft rejection. Because there is large day-to-day variability in urinary amylase excretion following pancreas transplantation, if a significant decrease is noted, it should be confirmed by a second collection. There is also large inter-individual variability in urinary amylase excretion among pancreas transplant recipients. Collecting a timed urine specimen and expressing the urinary amylase level as Units excreted/hour might reduce variability and improve test performance. However, acute rejection is usually not established solely by changes in urinary amylase excretion, but by tissue biopsy.
<b>Critical Values:</b>	N/A
<b>Limitations:</b>	N/A
<b>Methodology:</b>	Enzymatic Rate
<b>References:</b>	<a href="#">Mayo Medical Laboratory</a> February 2015