<table>
<thead>
<tr>
<th>Lab Dept:</th>
<th>Urine/Stool</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Name:</td>
<td>PROTEIN, TIMED URINE</td>
</tr>
</tbody>
</table>

**General Information**

- **Lab Order Codes:** UTPQ
- **Synonyms:** Total Protein, Timed Urine; Total Protein, 24 hour Urine; TP, Quantitative Urine
- **CPT Codes:** 84155 – Protein; total, except refractometry 81050 – Volume measurement for timed collection
- **Test Includes:** Urine protein concentrations in mg/dL and mg/collection

**Logistics**

- **Test Indications:** The kidney glomeruli behave as ultrafilters for plasma proteins. Urine total protein can be used to test the effects of treatment in diabetes, nephrotic syndrome and in disease processes where proteinuria is possible.
- **Lab Testing Sections:** Chemistry
- **Phone Numbers:** MIN Lab: 612-813-6280  
  STP Lab: 651-220-6550
- **Test Availability:** Daily, 24 hours
- **Turnaround Time:** 1 day
- **Special Instructions:** Submit an entire 24-hour urine collection. No preservative. Refrigerate specimen during and after collection.

**Note:** Starting and ending times of collection are required for a timed urine collection and must be documented electronically or on the proper request form.

**Specimen**

- **Specimen Type:** Urine, timed collection
- **Container:** Plastic leakproof container (No preservative). Urine GUARD® collection container is preferred for a timed urine sample.
- **Draw Volume:** Submit an entire 24-hour urine collection
**Processed Volume:**  Minimum: 1 mL urine

**Collection:**  For timed urine collections, empty the bladder, discard the voided sample, and note the start time. Collect all urine voided for the specified time period. At the end of the period, note the finishing time, add the last voided sample to the container by emptying the bladder. Bring the refrigerated container to the lab. Make sure all specimens submitted to the laboratory are properly labeled with the patient’s name, medical record number and date of birth.

**Special Processing:**  N/A

**Patient Preparation:**  None

**Sample Rejection:**  Mislabeled or unlabeled specimens

### Interpretive

**Reference Range:**  0 - 99 mg/collection

**Note:** The reference values are for a 24 hour collection. Specimens collected for other than a 24 hour time period have no reference ranges established.

**Critical Values:**  N/A

**Limitations:**  N/A

**Methodology:**  Pyrogallol Red-Molybdate

**References:**
- Dimension Vista ® UCFP Flex® reagent cartridge Instructions for Use, Siemens Healthcare Diagnostics, PN 781026.001 – US Rev G Issue Date 2014-07-14
- Siemens Dimension Vista® UCFP Calibrator Instructions for Use, Siemens Healthcare Diagnostics, PN 761260.001 – US, Rev D, 10/2012
- Biorad Liquichek Spinal Fluid Control Product insert, Bio-Rad Laboratories
- Biorad Liquichek® Urine Chemistry Control Product insert, Bio-Rad Laboratories

**Updates:**  9/16/2014: Updated references