Lab Dept: Urine/Stool
Test Name: MICROALBUMIN, URINE

General Information
Lab Order Codes: UMAR
Synonyms: Albumin/Creatinine Ratio
CPT Codes: 82043 – Albumin: urine, microalbumin, quantitative
82570 – Creatinine; other source
Test Includes: Urine Microalbumin in mg/L, Urine Creatinine in mg/dL and
Albumin/creatinine ratio in mg albumin/g creatinine

Logistics
Test Indications: Increased excretion of albumin (microalbuminuria) is a predictor of
future development of clinical renal disease in patients with
hypertension or diabetes mellitus.
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: N/A

Specimen
Specimen Type: Urine, random collection
Container: Plastic leakproof container (No preservatives)
Draw Volume: 1 - 3 mL from a random urine collection
Processed Volume: Minimum: 1 mL urine
**Collection:** A random urine sample may be obtained by voiding into a urine cup and is often performed at the laboratory. 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:** Lab Staff: Centrifuge specimen before analysis.

**Patient Preparation:** Sample should not be collected after exertion, in the presence of a urinary tract infection, during acute illness, immediately after surgery, or after acute fluid load.

**Sample Rejection:** Mislabeled or unlabeled specimens; samples contaminated with blood

### Interpretive

<table>
<thead>
<tr>
<th>Reference Range:</th>
<th>Albumin/creatinine ratio (A/C ratio)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>&lt;30 mg/g Normal</td>
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<tr>
<td></td>
<td>30 - 300 mg/g Microalbuminuria</td>
</tr>
<tr>
<td></td>
<td>&gt;300 mg/g Clinical albuminuria</td>
</tr>
<tr>
<td>Urine Creatinine:</td>
<td>No reference ranges established</td>
</tr>
</tbody>
</table>

**Critical Values:** N/A

**Limitations:** N/A

**Methodology:** Nephelometry

**References:**

- Siemens Dimension Vista MALB Flex Package Insert, K7062G00E0803, Rev 3/2011
- Biorad Liquichek® Urine Chemistry Control Product insert, Bio-Rad Laboratories, Irvine, CA 92618

**Updates:**

- 8/29/2005: Method change, previously listed as Immunoturbidimetric/Modified benedict/Behre.
- 4/22/2014: Method update, previously listed as Turbidimetric/Immunoaassay – PETINIA.
- 9/28/2017: Updated lab processing.