**Orderable - RENIN/RENSUP/RENSTD**

**Turnaround Time: 5 days**

**Alternate Name(s):**
Direct Renin
Renin Mass

**Specimen:**

<table>
<thead>
<tr>
<th></th>
<th>Adult</th>
<th>Pediatric</th>
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<tbody>
<tr>
<td></td>
<td>4 mL Lavender top (EDTA) Vacutainer tube</td>
<td>0-2 years: 2 x 0.5 mL Lavender top (EDTA) Microtainers</td>
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<td>2-10 years: 3 mL Lavender top (EDTA) Vacutainer tube</td>
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<td>Red, Gold or Light Green (Li-Heparin) top tubes are not acceptable</td>
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**Collection Information:**

Minimum volume of plasma required is 500 µL.

Patient should be on a normal salt diet for at least 3 days prior to test.

**Supine:** Patient should be lying supine for at least 30 minutes prior to blood collection.

**Standing:** Blood should be collected midmorning (ideally), after the patient has been up (sitting, standing, or walking) for at least 2 hours and then seated for 5-15 minutes.

If test has been ordered without a requested posture, collect a standing sample.

**Reference Ranges:**

**Standing (Upright):**
5 – <19 years: 5.5 – 52.1 ng/L
19 – 60 years: 2.6 – 27.7 ng/L

**Supine:**
20 – 60 years: 1.7 – 23.9 ng/L
**Interpretive Comments:**
Renin levels are very high at birth and gradually decline to adult levels.

**Special Processing:**
Sample should be spun in a centrifuge at room temperature. If possible, separate plasma into 2 aliquots of at least 500 µL each and then freeze.

**Storage and Shipment:**
Store and ship plasma frozen.