Lab Dept: Chemistry

Test Name: SOLUBLE IL-2 RECEPTOR ALPHA

**General Information**

Lab Order Codes: IL2RA

Synonyms: Interleukin-2 Receptor α, Soluble

CPT Codes: 83520 – Immunoassay for analyte other than infectious agent antibody or infectious agent antigen, qualitative or semiquantitative, not otherwise specified

Test Includes: Soluble IL-2R level reported in U/mL.

**Logistics**

Test Indications: The function of IL-2 sRα is unclear. Increased levels of IL-2 sRα in biological fluids correlate with increased T & B activation and immune system activation. Results of a number of studies suggest a correlation between levels of IL-2 sRα in serum with the onset of rejection episodes in allograft recipients.

Lab Testing Sections: Chemistry - Sendouts

Referred to: Cincinnati Children’s Hospital

Phone Numbers: MIN Lab: 812-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 3 – 9 days

Special Instructions: N/A

**Specimen**

Specimen Type: Blood

Container: Lavender top (EDTA) tube

Draw Volume: 3 mL (Minimum: 1 mL) EDTA blood

Processed Volume: Same as Draw Volume
**Collection:** Routine venipuncture

**Special Processing:** Lab Staff: Send EDTA whole blood, clearly labeled and initialed by the phlebotomist, by overnight courier, at room temperature to arrive Monday through Friday. Specimens must be processed within 24 hours of collection.

***If you absolutely must collect a sample on a weekend and can not ship the sample within 24 hours:***

Specimens must be spun, and a plasma aliquot frozen. Frozen specimens must be shipped on dry ice.

Please contact Cincinnati Children’s by phone (1-513-636-4769) with tracking number on day of shipment.

**Patient Preparation:** None

**Sample Rejection:** Specimens other than whole blood; frozen specimens; anticoagulants other than EDTA; mislabeled or unlabeled specimens

### Interpretive

<table>
<thead>
<tr>
<th>Reference Range:</th>
<th>Age:</th>
<th>Range (U/mL):</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>&lt;2 years:</td>
<td>334 – 3026 U/mL</td>
</tr>
<tr>
<td></td>
<td>2 – 7 years:</td>
<td>&lt;2126 U/mL</td>
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<tr>
<td></td>
<td>&gt;7 years:</td>
<td>45 – 1105 U/mL</td>
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**Critical Values:** N/A

**Limitations:** N/A

**Methodology:** IMMULITE 1000 sIL2R, solid –phase, two-site chemiluminescent immunometric assay

**References:** [Cincinnati Children’s Web Page](http://www.cincinnatichildrens.org) April 2011

**Update:** 4/21/2011: Method change, units and reference range change.