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**Lab Dept:** Chemistry

**Test Name:** INSULIN LEVEL

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***General Information***

**Lab Order Codes:** INS

**Synonyms:** N/A

**CPT Codes:** 83525 – Insulin; total

**Test Includes:** Insulin level reported in uIU/mL.

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***Logistics***

**Test Indications:** N/A

**Lab Testing Sections:** Chemistry - Sendouts

**Referred to:** Esoterix, Inc (Test# 500220)

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

STP Lab: 651-220-6550

**Test Availability:** Daily, 24 hours

**Turnaround Time:** 3 - 5 days, test is set up Monday - Saturday

**Special Instructions:** N/A

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***Specimen***

**Specimen Type:** Blood

**Container:** SST (Marble, gold or red top tube)  
Alternate tube: Lavender top (EDTA) tube

**Draw Volume:** 1.5 mL (Minimum: 0.6 mL) blood

**Processed Volume:** 0.5 mL (Minimum: 0.2 mL) serum/EDTA plasma

**Note:** Minimum does not permit repeat analysis.

**Collection:** Routine venipuncture

**Special Processing:** Lab Staff: Centrifuge specimen within 1 hour of draw, remove serum/plasma aliquot into a screw-capped round bottom plastic vial. Store and ship at frozen temperatures. Forward promptly.

**Patient Preparation:** None

**Sample Rejection:** Mislabeled or unlabeled specimens

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***Interpretive***

<b>Reference Range:</b>	<b>Age</b>	<b>Range (uIU/mL)*</b> *Following a 4-12 hour fast
	Prepubertal, 0 – 8 years:	<=13
	Pubertal Children:	<=17
	Adults:	<=17
	2 Hours Post Meal (Sustacal):	7.6 – 26
	2 Hours Post Glucose (75 gm):	15 – 53

**Critical Values:** N/A

**Limitations:** N/A

**Methodology:** Automated Immunochemiluminometric Assay (ICMA)

**References:** Esoterix Laboratory Services Web Page [www.esoterix.com](http://www.esoterix.com) January 2013

Esoterix, Inc. "Expected Value & S.I. Unit Conversion Table" Fifth Edition

**Updates:** 5/17/2010: Method change and reference range changes. Specimen volumes adjusted for new method. Fasting specimen not required.  
1/7/2012: Units previously listed as uU/mL. Updated reference ranges.  
8/22/2016: Tube update