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**Lab Dept:** Chemistry

**Test Name:** IGFBP-3

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***General Information***

**Lab Order Codes:** IGF3

**Synonyms:** IGF Binding Protein-3, Insulin-like Growth Factor Binding Protein-3; IGF1BP-3; GHBP3; IGFBP3

**CPT Codes:** 83520 - Immunoassay, analyte, quantitative; NOS

**Test Includes:** IGF Binding Protein-3 reported in mg/L.

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***Logistics***

**Test Indications:** N/A

**Lab Testing Sections:** Chemistry – (Performed on Minneapolis Campus)

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

STP Lab: 651-220-6550

**Test Availability:** Daily, 24 hours

**Turnaround Time:** Performed daily

**Special Instructions:** N/A

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***Specimen***

**Specimen Type:** Blood

**Container:** Red NO Gel (preferred)  
Alternate tube: Green NO GEL

**Draw Volume:** 1.8 mL (Minimum: 0.6 mL) blood

**Processed Volume:** 0.6 mL (Minimum: 0.2 mL) serum/plasma

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

**Collection:** Routine blood collection

**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; incorrect sample type

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***Interpretive***

**3.80 - Reference Range:**

<b>Age</b>	<b>Male (mg/L)</b>	<b>Female (mg/L)</b>
0 – 11 months	1.1 – 3.18	1.05 – 3.27
1 year	1.29 – 3.63	1.22 – 3.72
2 years	1.47 – 4.07	1.39 – 4.15
3 years	1.64 – 4.49	1.55 – 4.56
4 years	1.80 – 4.88	1.71 – 4.93
5 years	1.94 – 5.19	1.85 – 5.24
6 years	2.04 – 5.38	1.95 – 5.40
7 years	2.10 – 5.47	2.02 – 5.52
8 years	2.15 – 5.55	2.10 – 5.63
9 years	2.22 – 5.66	2.18 – 5.76
10 years	2.30 – 5.80	2.27 – 5.91
11 years	2.39 – 5.96	2.36 – 6.06
12 years	2.46 – 6.09	2.44 – 6.18
13 years	2.53 – 6.20	2.52 – 6.29
14 years	2.58 – 6.27	2.58 – 6.37
15 years	2.61 – 6.31	2.64 – 6.43
16 years	2.64 – 6.32	2.68 – 6.47
17 years	2.66 – 6.32	2.72 – 6.50

18 years	2.68 – 6.33	2.75 – 6.51
19 years	2.70 – 6.34	2.78 – 6.53
20 years	2.72 – 6.36	2.81 – 6.55
21 – 25 years	2.75 – 6.36	2.86 – 6.56
26 – 30 years	2.68 – 6.13	2.75 – 6.22
31 – 35 years	2.61 – 5.98	2.57 – 5.80
36. – 40 years	2.57 – 5.98	2.50 – 5.71
41 – 45 years	2.52 – 6.02	2.41 – 5.61
46 – 50 years	2.37 – 5.89	2.34 – 5.61
Tanner Stages	Male	Female
I	2.71 – 5.26	2.80 – 5.24
II	3.53 – 5.75	3.05 – 5.60
III	3.73 – 6.39	3.93 – 6.01
IV	3.37 – 6.20	3.80 – 6.36
V	3.87 – 6.65	3.88 – 6.49

**Critical Values:**

N/A

**Limitations:**

This method is susceptible to biotin interference. Unexpected results that do not match clinical presentation should be repeated at least 24 hours after the last does of supplemental biotin, which includes some multivitamins.

**Methodology:**

Chemiluminescence, IDS iSYS

**References:**

IDS iSYS IGFBP-3 Packing Insert. IS-4400 V07 Updated Feb 01, 2017  
 Seattle Children's Laboratory Reference Ranges for IGFBP3  
 IDS IGFBP-3 Reference Range Study Publication. ML4010 version 1.0, 2017

**Updates:**

8/22/16: Tube update

11/3/2016: Method and reference range update

6/14/2018: New inhouse method, sample type change