
Lab Dept: Chemistry

Test Name: IGFBP-3

General Information

Lab Order Codes: IGFB

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.

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

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

Interpretive**3.80 - Reference Range:**

Age	Male (mg/L)	Female (mg/L)
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