
Lab Dept: Chemistry

Test Name: IGF-1 (SOMATOMEDIN C)

General Information

Lab Order Codes: SOMC

Synonyms: Somatomedin C, Insulin-like Growth Factor-1, IGF-1; IGF1

CPT Codes: 84305 - Somatomedin

Test Includes: N/A

Logistics

Test Indications: N/A

Lab Testing Sections: Chemistry - Sendouts

Referred to: Esoterix, Inc (ESL Test: 500282)

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

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

Special Instructions: N/A

Specimen

Specimen Type: Blood

Container: SST (Marble, gold or red top tube)

Draw Volume: 1.5 mL (Minimum: 0.3 mL) blood

Processed Volume: 0.5 mL (Minimum: 0.1 mL) serum

Note: Submission of minimum volume does not allow repeat analysis

Collection: Routine venipuncture

Special Processing: Lab Staff: Centrifuge specimen within 1 hour of draw, remove serum 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

Interpretive

Reference Range:	Newborns and Infants	Term (Range ng/mL)	Pre-Term * (Range ng/mL)
-------------------------	-----------------------------	---------------------------	---------------------------------

Birth:	15 - 109	21 - 93
2 months:	15 - 109	23 - 163
4 months:	7 - 124	23 - 171
6 months:	7 - 93	15 - 132
12 months:	15 - 101	15 - 179

* Values from preterm infants were determined at these ages from expected term gestation.

Children and Young Adults	Tanner Stage	Male (ng/mL)	Female (ng/mL)
1 – 2 years:		30 - 122	56 - 144
3 years:	1	20 - 141	26 - 162
4 years:	1	25 - 157	31 - 179
5 years:	1	30 - 174	39 - 198
6 years:	1	47 - 217	37 - 192
7 years:	1	44 - 211	55 - 238
	2	52 - 231	64 - 259
	3	39 - 264	89 - 369
8 years:	1	39 - 264	N/A
	2	61 - 252	74 - 282
	3	52 - 304	96 - 399
9 years:	1	52 - 304	192 - 568
	2	71 - 275	85 - 306
	3	67 - 347	104 - 431
10 years:	1	67 - 347	192 - 568
	2		
	3		

11 years:	1	82 - 299	97 - 332
	2	86 - 393	112 - 466
	3	86 - 393	192 - 568
	4 and 5	277 - 673	268 - 646
12 years:	1	93 - 324	110 - 358
	2	106 - 443	121 - 504
	3	106 - 443	192 - 568
	4 and 5	265 - 652	248 - 612
13 years:	1	106 - 350	N/A
	2	130 - 497	131 - 545
	3	130 - 497	192-568
	4 and 5	241 - 612	229 - 579
14 years:	1	120 - 377	N/A
	2	156 - 554	136 - 566
	3	156 - 554	192 - 568
	4 and 5	220 - 574	211 - 547
15 years:	1	127 - 391	N/A
	2	185 - 616	N/A
	3	185 - 616	192 - 568
	4 and 5	199 - 537	194 - 516
16 years:	2 and 3	201 - 648	N/A
	4 and 5	180 - 501	177 - 487
17 years:	4 and 5	161 - 467	162 - 458

18 years:	4 and 5	144 - 434	147 - 430
Adults	Male (ng/mL)		Female (ng/mL)
19–20 years:	281 - 510		217 - 475
21-30 years:	155 - 432		87 - 368
31-40 years:	132 - 333		106 - 368
41-50 years:	121 - 237		118 - 298
51-60 years:	68 - 245		53 - 287
61-70 years:	60 - 220		75 - 263
71-80 years:	36 - 215		54 - 205

Critical Values:

N/A

Limitations:

N/A

Methodology:

Blocking Radioimmunoassay (RIA) after acid:alcohol extraction

References:

[Esoterix Laboratory Services](#) December 2017

Updates:

12/20/2017: Updated reference ranges