

Laboratory Medicine Technical Bulletin

Change of Method: Insulin Like Growth Factor I

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Recently, Siemens Diagnostics suspended availability of its reagent for Insulin Like Growth Factor I (IGF-I) for the Immulite series of instruments. For this reason, we have recently migrated to the Immunodiagnostic Systems iSYS platform for this test. Like the Immulite method, the iSYS method is a two-site chemiluminescent immunoassay. However, results from the iSYS method have different reference intervals and are not directly comparable to those of the Immulite 2000 XPi. Please see Laboratory Medicine Bulletin on this topic which has been forwarded to all Laboratory Directors in BC or obtain a copy by calling 604 806 8810.

Specimen requirements for the new IGF-I method are as follows:

Specimen Type: SST (gold-top) or Gel-Free (red-top) Serum

Minimum Specimen Volume: 200 μ L

Hemolysis: Acceptable up to \sim 1 g/L (moderate to severe)

Specimen Handling: Separate immediately, pour off and freeze

Shipping: Ship frozen

Rejection Criteria: Thawed specimen

Reference Interval: See Appendix I

If you have any questions about this change, please do not hesitate to contact me.



Daniel T. Holmes, MD FRCPC
Medical Biochemist
dtholmes@providencehealth.bc.ca
604-806-8919

Appendix I: Age and gender specific normal ranges for IGF-I on the Immunodiagnostic Systems iSYS platform.

Age (y)	Male Reference Interval (ug/L)		Female Reference Interval (ug/L)	
	Lower	Upper	Lower	Upper
0	13	138	16	143
1	18	176	19	160
2	23	212	22	178
3	28	247	25	198
4	34	282	29	219
5	40	316	34	244
6	46	349	39	271
7	53	382	45	302
8	60	414	52	336
9	68	443	59	371
10	75	469	67	407
11	83	490	75	440
12	90	505	82	467
13	96	514	89	488
14	101	516	94	501
15	104	512	98	505
16	107	502	101	502
17	109	488	102	493
18	109	472	103	478
19	109	453	102	461
20	108	432	100	441
21	107	411	98	419
22	105	390	95	397
23	102	369	92	376
24	100	349	89	355
25	97	330	86	336
26	94	313	83	319
27	91	297	81	303
28	89	283	78	289
29	86	270	76	278
30	84	259	74	268
31	82	250	73	260
32	80	243	72	254
33	79	237	71	249
34	78	232	70	244
35	77	228	69	240
36	76	225	69	236
37	75	222	68	233
38	74	219	67	229
39	73	216	66	224
40	72	213	65	220
41	70	210	63	215
42	69	208	62	211
43	68	206	61	207
44	66	204	60	204

Age (y)	Male Reference Interval (ug/L)		Female Reference Interval (ug/L)	
	Lower	Upper	Lower	Upper
45	65	202	59	201
46	64	200	58	199
47	62	198	57	196
48	61	197	56	193
49	60	197	55	191
50	59	196	54	189
51	58	197	53	187
52	57	197	52	186
53	56	197	51	184
54	55	197	49	182
55	54	196	48	179
56	53	194	47	176
57	51	193	46	174
58	50	192	45	172
59	49	191	44	171
60	48	190	43	171
61	47	190	42	170
62	47	189	41	168
63	46	190	40	166
64	46	191	39	165
65	45	192	39	164
66	45	194	38	164
67	45	195	38	164
68	44	195	37	164
69	44	195	37	165
70	43	195	37	166
71	43	194	36	166
72	42	193	36	166
73	42	192	36	166
74	41	192	35	165
75	40	190	35	165
76	40	189	35	165
77	39	187	34	165
78	39	186	34	165
79	38	185	34	167
80	38	184	34	168
81	38	183	35	171
82	37	182	35	173
83	37	182	35	175
84	37	182	35	175
85	37	181	35	176
86	36	180	34	175
87	36	179	34	174
88	36	177	33	172
89	35	175	32	169
>89	35	173	31	166