

Leptin

Test ID: FLEP

Explanation: Per notification received from Esoterix Endocrinology, test ID FLEP will experience the following changes, effective immediately.

Current Method	New Method
Enzyme Immunoassay (EIA)	Enzyme-linked immunosorbent assay (ELISA)

Current Reference Value	New Reference Value																																																																												
Units: ng/mL	Units: ng/mL																																																																												
Female Ranges <20 by Body Mass Index (BMI) <table border="1"> <thead> <tr> <th>BMI</th> <th>Tanner Stage 1-2</th> <th>Tanner Stage 3-4</th> <th>Tanner Stage 5</th> </tr> </thead> <tbody> <tr><td>11</td><td>0.3-1.5</td><td>0.4-1.3</td><td>0.7-2.7</td></tr> <tr><td>12</td><td>0.4-1.9</td><td>0.5-1.6</td><td>0.8-3.2</td></tr> <tr><td>13</td><td>0.5-2.4</td><td>0.7-2.1</td><td>0.9-3.7</td></tr> <tr><td>14</td><td>0.6-3.1</td><td>0.8-2.6</td><td>1.0-4.3</td></tr> <tr><td>15</td><td>0.8-3.9</td><td>1.1-3.3</td><td>1.2-5.0</td></tr> <tr><td>16</td><td>1.1-5.0</td><td>1.3-4.2</td><td>1.4-5.8</td></tr> <tr><td>17</td><td>1.4-6.5</td><td>1.7-5.3</td><td>1.6-6.7</td></tr> <tr><td>18</td><td>1.7-8.3</td><td>2.1-6.7</td><td>1.9-7.8</td></tr> <tr><td>19</td><td>2.2-10.7</td><td>2.7-8.5</td><td>2.2-9.1</td></tr> <tr><td>20</td><td>2.9-13.7</td><td>3.4-10.7</td><td>2.6-10.5</td></tr> <tr><td>21</td><td>3.7-17.6</td><td>4.3-13.6</td><td>3.0-12.3</td></tr> <tr><td>22</td><td>4.7-22.6</td><td>5.5-17.2</td><td>3.5-14.2</td></tr> <tr><td>23</td><td>6.0-29.0</td><td>6.9-21.8</td><td>4.0-16.6</td></tr> <tr><td>24</td><td>7.8-37.2</td><td>8.8-27.6</td><td>4.7-19.3</td></tr> <tr><td>25</td><td>10.0-47.8</td><td>11.1-34.9</td><td>5.5-22.4</td></tr> <tr><td>26</td><td>12.8-61.4</td><td>14.0-44.2</td><td>6.4-26.0</td></tr> <tr><td>27</td><td>16.4-78.8</td><td>17.7-56.0</td><td>7.4-30.3</td></tr> <tr><td>28</td><td>21.5-101.0</td><td>22.5-70.9</td><td>8.6-35.2</td></tr> </tbody> </table>	BMI	Tanner Stage 1-2	Tanner Stage 3-4	Tanner Stage 5	11	0.3-1.5	0.4-1.3	0.7-2.7	12	0.4-1.9	0.5-1.6	0.8-3.2	13	0.5-2.4	0.7-2.1	0.9-3.7	14	0.6-3.1	0.8-2.6	1.0-4.3	15	0.8-3.9	1.1-3.3	1.2-5.0	16	1.1-5.0	1.3-4.2	1.4-5.8	17	1.4-6.5	1.7-5.3	1.6-6.7	18	1.7-8.3	2.1-6.7	1.9-7.8	19	2.2-10.7	2.7-8.5	2.2-9.1	20	2.9-13.7	3.4-10.7	2.6-10.5	21	3.7-17.6	4.3-13.6	3.0-12.3	22	4.7-22.6	5.5-17.2	3.5-14.2	23	6.0-29.0	6.9-21.8	4.0-16.6	24	7.8-37.2	8.8-27.6	4.7-19.3	25	10.0-47.8	11.1-34.9	5.5-22.4	26	12.8-61.4	14.0-44.2	6.4-26.0	27	16.4-78.8	17.7-56.0	7.4-30.3	28	21.5-101.0	22.5-70.9	8.6-35.2	Adults (BMI=22) Males 0.7 - 5.3 Females 3.3 - 18.3 Contact laboratory for other BMI reference ranges.
BMI	Tanner Stage 1-2	Tanner Stage 3-4	Tanner Stage 5																																																																										
11	0.3-1.5	0.4-1.3	0.7-2.7																																																																										
12	0.4-1.9	0.5-1.6	0.8-3.2																																																																										
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16	1.1-5.0	1.3-4.2	1.4-5.8																																																																										
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18	1.7-8.3	2.1-6.7	1.9-7.8																																																																										
19	2.2-10.7	2.7-8.5	2.2-9.1																																																																										
20	2.9-13.7	3.4-10.7	2.6-10.5																																																																										
21	3.7-17.6	4.3-13.6	3.0-12.3																																																																										
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29	27.0-130.0	28.4-89.7	10.0-40.9
30		36.0-114.0	11.6-47.6
31		45.6-144.0	13.5-55.3
32		57.7-144.0	15.7-64.4
33			18.3-74.9
34			21.2-87.0
35			24.7-101.0
36			28.7-118.0
37			33.4-137.0

Male Ranges <20 by Body Mass Index (BMI)

BMI	Tanner Stage 1-2	Tanner Stage 3-4	Tanner Stage 5
11	0.1-0.7	0.1-0.6	0.1-0.5
12	0.2-0.9	0.1-0.7	0.1-0.5
13	0.2-1.2	0.1-0.9	0.1-0.6
14	0.3-1.6	0.1-1.1	0.1-0.7
15	0.4-2.0	0.1-1.3	0.1-0.8
16	0.5-2.7	0.2-1.6	0.1-1.0
17	0.6-3.5	0.2-1.6	0.1-1.1
18	0.8-4.6	0.2-2.5	0.2-1.3
19	1.0-6.0	0.3-3.0	0.2-1.5
20	1.4-7.9	0.3-3.7	0.2-1.7
21	1.8-10.4	0.4-4.6	0.2-2.0
22	2.3-13.6	0.5-5.6	0.3-2.3
23	3.1-17.8	0.6-6.9	0.3-2.7
24	4.0-23.3	0.8-8.5	0.4-3.6
25	5.2-30.6	1.0-10.5	0.4-3.1
26	6.9-40.1	1.2-12.9	0.5-4.2
27	9.0-52.5	1.5-15.8	0.6-4.8
28	11.8-68.9	1.8-19.4	0.6-5.6
29	15.5-90.3	2.2-23.9	0.7-6.5
30	20.3-118.0	2.7-29.4	0.9-7.5
31		3.3-36.2	1.0-8.7
32		4.1-44.5	1.2-10.0
33		5.0-54.7	1.3-11.6
34		6.2-67.2	1.5-13.4
35		7.6-82.6	1.8-15.6
36		9.4-101.0	2.1-18.0
37		11.5-124.0	2.4-20.8
38			2.8-24.1
39			3.2-27.9
40			3.7-32.3

Female Ranges >19 by Body Mass Index (BMI)

BMI	Range	BMI	Range
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11	0.7-3.6	24	4.4-24.2
12	0.8-4.2	25	5.1-28.0
13	0.9-4.8	26	5.9-32.4
14	1.0-5.6	27	6.8-37.5
15	1.2-6.5	28	7.9-43.5
16	1.4-7.5	29	9.1-50.4
17	1.6-8.7	30	10.6-58.3
18	1.8-10.0	31	12.2-67.5
19	2.1-11.6	32	14.1-78.2
20	2.4-13.4	33	16.4-90.5
21	2.8-15.6	34	19.0-105.0
22	3.3-18.0	35	22.0-121.0
23	3.8-20.9	36	25.4-141.0

Male Ranges >19 by Body Mass Index (BMI)

BMI	Range	BMI	Range
11	0.1-0.4	25	1.1-9.6
12	0.1-0.6	26	1.3-12.0
13	0.1-0.7	27	1.6-14.9
14	0.1-0.9	28	2.0-18.6
15	0.1-1.1	29	2.5-23.2
16	0.2-1.3	30	3.2-28.9
17	0.2-1.7	31	3.9-36.0
18	0.2-2.1	32	4.9-44.9
19	0.3-2.6	33	6.1-55.8
20	0.4-3.2	34	7.6-69.6
21	0.4-4.0	35	9.5-86.7
22	0.5-5.0	36	11.8-108.0
23	0.8-6.2	37	14.8-135.0

Current Specimen Required

Specimen Type: Serum

Container/Tube: Red or SST

Specimen Volume: 1 mL

Collection Instructions: Draw blood in a plain red-top tube(s), serum gel tube(s) is acceptable. Spin down and send 1 mL of serum ambient in a plastic vial.

New Specimen Required

Patient Preparation: Fasting 8-12 hours is recommended.

Specimen Type: Serum

Container/Tube: Red or SST

Specimen Volume: 1 mL

Collection Instructions: Draw blood in a plain red-top tube(s), serum gel tube(s) is acceptable. Separate from cells within 45 minutes of venipuncture and send 1 mL of serum frozen in a plastic vial.

Current Specimen Stability		
Specimen	Temperature	Time
Serum	Ambient (preferred)	14 days
	Frozen	21 days
	Refrigerated	30 days

New Specimen Stability		
Specimen	Temperature	Time
Serum	Frozen (preferred)	200 days
	Ambient	48 hours
	Refrigerated	48 hours

Current Days Performed
Tuesday and Thursday

New Days Performed
Monday, Wednesday and Saturday

Current Analytic Time
4 to 5 days

New Analytic Time
11 to 15 days

Questions:

Contact MCL Referrals Supervisor, Amy Bluhm, at 800-533-1710.