

IMMUNOASSAY REFERENCE RANGES

TEST	UNITS	AGE from up to but NOT including	current FEMALE RANGE	NEW FEMALE RANGE	current MALE RANGE	NEW MALE RANGE	SLOPE	y-INTERCEPT	CORR COEFF	COMPARISON ANALYZER
<b>IMMUNOASSAY</b>										
<b>ANEMIA MARKERS</b>										
FERRITIN	ng/mL	ALL	10-291	<b>10 - 120</b>	22-322	<b>20 - 250</b>	1.101	23.027	0.9902	Siemens Centaur
FOLIC ACID	ng/mL	ALL	> 5.4	<b>&gt;4.5</b>	> 5.4	<b>&gt;4.5</b>	0.848	2.0912	0.882	Siemens Centaur
VITAMIN B12	pg/mL	ALL	211 - 911	<b>211 - 946</b>	211 - 911	<b>211 - 946</b>	1.109	52.58	0.9939	Siemens Centaur
<b>CARDIAC MARKERS</b>										
CK-MB	ng/mL	ALL	0 - 4.5	<b>0 - 2.9</b>	0 - 4.5	<b>0 - 4.9</b>	1.059	1.1886	0.9886	Siemens Centaur
RELATIVE INDEX	%	ALL	0 - 5.0	<b>0 - 5.0</b>	0 - 5.0	<b>0 - 5.0</b>				
<b>CORTISOL</b>										
CORTISOL	microg/dL	< 18 yrs	3.4 - 34.5	<b>3.4 - 34.5</b>	3.4 - 34.5	<b>3.4 - 34.5</b>	1.926	-12.187	0.9589	Siemens Centaur
		≥ 18 yrs 6 - 10 AM	4.3 - 22.4	<b>6.2 - 19.4 if 7-10am</b>	4.3 - 22.4	<b>6.2 - 19.4 if 7-10am</b>				
		≥ 18 yrs 4 - 11 PM	3.1 - 16.7	<b>2.3 - 11.9 if 4-8pm</b>	3.1 - 16.7	<b>2.3 - 11.9 if 4-8pm</b>				
<b>THYROIDS</b>										
PTH, INTACT	pg/mL	ALL	14.0 - 72.0	<b>15.0 - 65.0</b>	14.0 - 72.0	<b>15.0 - 65.0</b>	0.862	2.89	0.9987	Siemens Centaur
T3	ng/dL	ALL	60 - 181	<b>80 - 200</b>	60 - 181	<b>80 - 200</b>	0.814	37.614	0.9816	Siemens Centaur
T4	microg/dL	0 - 1Y	9.7 - 19.1	<b>9.7 - 19.1</b>	9.7 - 19.1	<b>9.7 - 19.1</b>	1.152	-0.604	0.9749	Siemens Centaur
		1Y - 7Y	9.2 - 15.1	<b>9.2 - 15.1</b>	9.2 - 15.1	<b>9.2 - 15.1</b>				
		7Y - 13Y	7.6 - 13.7	<b>7.6 - 13.7</b>	7.6 - 13.7	<b>7.6 - 13.7</b>				
		13Y - 18Y	6.4 - 13.4	<b>6.4 - 13.4</b>	6.4 - 13.4	<b>6.4 - 13.4</b>				
		≥ 18Y	4.5 - 10.9	<b>4.6 - 12.0</b>	4.5 - 10.9	<b>4.6 - 12.0</b>				
T4, FREE	ng/dL	0 - 1Y	1.1 - 2.0	<b>1.1 - 2.0</b>	1.1 - 2.0	<b>1.1 - 2.0</b>	1.024	-0.0159	0.981	Siemens Centaur
		1Y - 7Y	0.9 - 1.7	-	0.9 - 1.7	-				
		7Y - 13Y	1.1 - 1.7	-	1.1 - 1.7	-				
		13Y - 18Y	1.1 - 1.8	-	1.1 - 1.8	-				
		≥ 18Y	0.9 - 1.8	-	0.9 - 1.8	-				
		> 1 Y	-	<b>0.9 - 1.7</b>	-	<b>0.9 - 1.7</b>				
THYROID STIM HORMONE	micro IU/mL	0 - 1Y	1.36 - 8.8	<b>1.36 - 8.8</b>	1.36 - 8.8	<b>1.36 - 8.8</b>	0.921	0.9269	0.9969	Siemens Centaur
		1Y - 7Y	0.85 - 6.5	<b>0.85 - 6.5</b>	0.85 - 6.5	<b>0.85 - 6.5</b>				
		7Y - 13Y	0.28 - 4.3	<b>0.28 - 4.3</b>	0.28 - 4.3	<b>0.28 - 4.3</b>				
		≥ 13Y	0.35-5.5	<b>0.27 - 4.20</b>	0.35-5.5	<b>0.27 - 4.20</b>				

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<b>IMMUNOASSAY</b>										
<b>TUMOR MARKERS</b>										
AFP	IU/mL	ALL	0 - 7	0 - 7	0 - 7	0 - 7	0.916	-20.7226	0.9877	Siemens Centaur
BETA HCG	mIU/mL	ALL non-pregnant, pre-menopause post menopause	0 - 2 (non-pregnant) - -	- 0 - 1 0 - 7	0 - 2	0 - 2	0.845	62.799	0.9996	Siemens Centaur
CA 125	U/mL	ALL	0 - 30	0 - 34	-	-	1.263	4.783	0.996	Siemens Centaur
CEA	ng/mL	ALL	0 - 2.5	0 - 4.7	0 - 2.5	0 - 4.7	1.087	11.069	0.9853	Siemens Centaur
PROSTATIC SPECIFIC AG (PSA)	ng/mL	ALL	-	-	0 - 4	0 - 4	1.138	-0.6477	0.9969	Siemens Centaur
% FREE PSA	%	ALL				see table below	1.035	-0.041	0.9888	Mayo Laboratories (Reference lab) Beckman DX1800

AGE	% Free PSA	PROBABILITY PCA
50 - 59	<10	49.2
	11 - 18	26.9
	19 - 25	18.3
	>25	9.1
60 - 69	<10	57.5
	11 - 18	33.9
	19 - 25	23.9
	>25	12.2
>69	<10	64.5
	11 - 18	40.8
	19 - 25	29.7
	>25	15.8

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<b>IMMUNOASSAY</b>										
<b>REPRODUCTIVE ENDO</b>										
ESTRADIOL	pg/mL	ALL	see below	see below	0 - 52	7.6 - 42.6	0.987	27.019	0.9921	Siemens Centaur
		Follicular Phase	11 - 165	12.5 - 166	-	-				
		Ovulation Phase	146 - 526	85.8 - 498	-	-				
		Luteal Phase	33 - 196	43.8 - 211	-	-				
		Postmenopause	0 - 37	0 - 54.7	-	-				
		Pregnancy (1st trimester)	-	>214	-	-				
		Children (1-10yrs)	-	6 - 27	-	0 - 20				
		Tanner Stage 1	-	5 - 20	-	5 - 11				
		Tanner Stage 2	-	10 - 24	-	5 - 16				
		Tanner Stage 3	-	7 - 60	-	5 - 25				
		Tanner Stage 4	-	21 - 85	-	10 - 36				
Tanner Stage 5	-	34 - 170	-	10 - 36						
FOLLICLE STIM HORMONE	mIU/mL	ALL	see below	see below	1.4 - 18.1	1.5 - 12.4	1.119	0.365	0.9889	Siemens Centaur
		Prepubertal	0.3 - 11.1	-	-	-				
		Follicular Phase	3.5 - 12.5	3.5 - 12.5	-	-				
		Ovulation Phase	4.7 - 21.5	4.7 - 21.5	-	-				
		Luteal Phase	1.7 - 7.7	1.7 - 7.7	-	-				
		Postmenopause	25.8 - 134.8	25.8 - 134.8	-	-				
LUTEINIZING HORMONE	mIU/mL	0 - 20Y	see below		0 - 6.0		0.904	2.7649	0.9958	Siemens Centaur
		20Y - 70Y	see below		1.5 - 9.3					
		≥ 70Y	see below		3.1 - 34.6					
		ALL	see below	see below	-	1.7 - 8.6				
		Follicular Phase	1.9 - 12.5	2.4 - 12.6	-	-				
		Ovulation Phase	8.7 - 76.3	14.0 - 95.6	-	-				
		Luteal Phase	0.5 - 16.9	1.0 - 11.4	-	-				
		Post Menopause	15.9 - 54.0	7.7 - 58.5	-	-				
		Pregnant	0.0 - 1.5	-	-	-				
		Contraceptives	0.7 - 5.6	-	-	-				
PROGESTERONE	ng/mL	ALL	see below	see below	0.3 - 1.2	0.2 - 1.4	0.787	0.1706	0.9859	Siemens Centaur
		Follicular Phase	0.2 - 1.4	0.2 - 1.5	-	-				
		Ovulation Phase	-	0.8 - 3.0	-	-				
		Luteal Phase	3.3 - 25.6	1.7 - 27	-	-				
		Mid-Luteal Phase	4.4 - 28.0	-	-	-				
		Postmenopause	0 - 0.7	0.1 - 0.8	-	-				
		Pregnancy 1st Trimester	11.2 - 90.0	-	-	-				
		Pregnancy 2nd Trimester	25.6 - 89.4	-	-	-				
		Pregnancy 3rd Trimester	48.4 - 422.5	-	-	-				
PROLACTIN	ng/mL	ALL	see below	see below	2.1 - 17.7	4.04 - 15.2	1.442	-0.392	0.9981	Siemens Centaur
		Non-pregnant	2.8 - 29.2	4.79 - 23.3	-	-				
		Pregnant	9.7 - 208.5	-	-	-				
		Postmenopause	1.8 - 20.3	-	-	-				
TESTOSTERONE, SERUM	ng/dL	ALL	14 - 76	6 - 82	-	-	0.962	-13.119	0.9929	Siemens Centaur
		Tanner Stage 1	-	<3 - 10	-	<3 - 10				
		Tanner Stage 2	-	7 - 28	-	18 - 150				
		Tanner Stage 3	-	15 - 35	-	100 - 320				
		Tanner Stage 4	-	13 - 32	-	200 - 620				
		Tanner Stage 5	-	20 - 38	-	350 - 970				
		0 - 1Y	-	-	12 - 21	12 - 21				
		1Y - 7Y	-	-	3 - 32	3 - 32				
		7Y - 13Y	-	-	3 - 68	3 - 68				
		13Y - 18Y	-	-	28 - 1110	28 - 1110				
		18 - 39 Y	-	-	241 - 827	280 - 800				
		40 - 49 Y	-	-	241 - 827	251 - 914				
		50 - 59 Y	-	-	241 - 827	216 - 876				
		60 - 69 Y	-	-	241 - 827	196 - 859				
		70 - 79 Y	-	-	241 - 827	156 - 818				