



URMC Labs
Automated Laboratory
Strong Memorial Hospital
601 Elmwood Avenue
Rochester, NY 14642

Attachment O
Immunoassay Reference
Range Summary Report
Roche Cobas e601

IMMUNOASSAY REFERENCE RANGES

TEST	UNITS	AGE from up to but NOT including	current FEMALE RANGE	NEW FEMALE RANGE	current MALE RANGE	NEW MALE RANGE
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IMMUNOASSAY

ANEMIA MARKERS						
FERRITIN	ng/mL	ALL	10-291	10 - 120	22-322	20 - 250
FOLIC ACID	ng/mL	ALL	> 5.4	>4.5	> 5.4	>4.5
VITAMIN B12	pg/mL	ALL	211 - 911	211 - 946	211 - 911	211 - 946

CARDIAC MARKERS						
CK-MB	ng/mL	ALL	0 - 4.5	0 - 2.9	0 - 4.5	0 - 4.9
RELATIVE INDEX	%	ALL	0 - 5.0	0 - 5.0	0 - 5.0	0 - 5.0

CORTISOL	microg/dL	< 18 yrs	3.4 - 34.5	3.4 - 34.5	3.4 - 34.5	3.4 - 34.5
		≥ 18 yrs 6 - 10 AM	4.3 - 22.4	6.2 - 19.4 if 7-10am	4.3 - 22.4	6.2 - 19.4 if 7-10am
		≥ 18 yrs 4 - 11 PM	3.1 - 16.7	2.3 - 11.9 if 4-8pm	3.1 - 16.7	2.3 - 11.9 if 4-8pm

THYROIDS						
PTH, INTACT	pg/mL	ALL	14.0 - 72.0	15.0 - 65.0	14.0 - 72.0	15.0 - 65.0
T3	ng/dL	ALL	60 - 181	80 - 200	60 - 181	80 - 200
T4	microg/dL	0 - 1Y	9.7 - 19.1	9.7 - 19.1	9.7 - 19.1	9.7 - 19.1
		1Y - 7Y	9.2 - 15.1	9.2 - 15.1	9.2 - 15.1	9.2 - 15.1
		7Y - 13Y	7.6 - 13.7	7.6 - 13.7	7.6 - 13.7	7.6 - 13.7
		13Y - 18Y	6.4 - 13.4	6.4 - 13.4	6.4 - 13.4	6.4 - 13.4
		≥ 18Y	4.5 - 10.9	4.6 - 12.0	4.5 - 10.9	4.6 - 12.0
T4, FREE	ng/dL	0 - 1Y	1.1 - 2.0	1.1 - 2.0	1.1 - 2.0	1.1 - 2.0
		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	-
		> 1Y	-	0.9 - 1.7	-	0.9 - 1.7
THYROID STIM HORMONE	micro IU/mL	0 - 1Y	1.36 - 8.8	1.36 - 8.8	1.36 - 8.8	1.36 - 8.8
		1Y - 7Y	0.85 - 6.5	0.85 - 6.5	0.85 - 6.5	0.85 - 6.5
		7Y - 13Y	0.28 - 4.3	0.28 - 4.3	0.28 - 4.3	0.28 - 4.3
		≥ 13Y	0.35-5.5	0.27 - 4.20	0.35-5.5	0.27 - 4.20

TEST	UNITS	AGE from up to but NOT including	current FEMALE RANGE	NEW FEMALE RANGE	current MALE RANGE	NEW MALE RANGE
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IMMUNOASSAY

TUMOR MARKERS						
AFP	IU/mL	ALL	0 - 7	0 - 7	0 - 7	0 - 7
BETA HCG	mIU/mL	ALL non-pregnant, pre-menopause post menopause	0 -2 (non-pregnant) - -	- 0 - 1 0 - 7	0 - 2	0 - 2
CA 125	U/mL	ALL	0 - 30	0 - 34	-	-
CEA	ng/mL	ALL	0 - 2.5	0 - 4.7	0 - 2.5	0 - 4.7
PROSTATIC SPECIFIC AG (PSA)	ng/mL	ALL	-	-	0 - 4	0 - 4
% FREE PSA	%	ALL				see table below
				AGE	% Free PSA	PROBABILITY PCA
				50 - 59	<10 11 - 18 19 - 25 >25	49.2 26.9 18.3 9.1
				60 - 69	<10 11 - 18 19 - 25 >25	57.5 33.9 23.9 12.2
				>69	<10 11 - 18 19 - 25 >25	64.5 40.8 29.7 15.8

TEST	UNITS	AGE from up to but NOT including	current FEMALE RANGE	NEW FEMALE RANGE	current MALE RANGE	NEW MALE RANGE
IMMUNOASSAY						
REPRODUCTIVE ENDO						
ESTRADIOL	pg/mL	ALL	see below	see below	0 - 52	7.6 - 42.6
		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
		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	-
		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
		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
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	-	-
		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