



Immunoassay Reference Range

Core Lab Test Update

As part of our commitment to provide the highest quality medical laboratory services, Clinical Labs of Hawaii has implemented the Roche Diagnostics Cobas® System of immunoassay analyzers. Comprehensive validation studies were performed and the reference range for select tests will be modified to the standard of care with strict adherence to the College of American Pathologists guidelines. Please see the updated reference ranges below, effective January 30, 2019.

TEST NAME	TEST CODE	UNITS	CURRENT REFERENCE RANGE	NEW REFERENCE RANGE
Vitamin B12	B12	pg/mL	180-914	232-1245
Cancer Antigen 19-9	CAG19	U/mL	0-35	3-42
Carcinoembryonic Antigen	CEA	ng/mL	0-3.0 Range for Healthy Smoker 0-5.0	0-3.8
Cortisol	CORTR	ug/dL	AM: 8.7-22.4 PM: <10.0	AM: 4.0-22.0 PM: 3.0-17.0
Ferritin	FERR	ng/mL	Female 0 days: 36-483 1 Month: 36-329 7 Months: 36-70 1 Year: 36-84 6 Years: 36-92 18 Years: 11-200 Male 0 days: 36-381 1 Month: 36-391 7 Months: 36-100 1 Year: 36-84 6 Years: 36-311 18 Years: 18-368	Female 8-364 Male 30-400
Follicle Stimulating Hormone	FSH	mIU/mL	Female Follicular Phase: 4.0-13.0 Luteal Phase: 2.0-13.0 Mid-Cycle: 5.0-22.0 Postmenopausal: 20-138 Male 1.0-8.0	Female Follicular Phase: 3.5-12.5 Luteal Phase: 1.7-7.7 Ovulation Phase: 4.7-21.5 Postmenopausal: 25.8-134.8 Male 1.5-12.4
Insulin	INSUL	uIU/mL	1.90-23.00	2.87-35.04
NT-proBNP	NTBNP	pg/mL	N/A	<75 Years: 0-125 >=75 Years: 0-450
Procalcitonin	PCAT	ng/mL	N/A	<0.10
Progesterone	PROGES	ng/mL	Female Follicular Phase: 0.21-1.21 Luteal Phase: 0.55-27.91 Postmenopausal: 0.13-1.08 Female (Pregnant) 1 st Trimester: 11.03- >40 2 nd Trimester: 22.98->40 Male 0.14-2.06	Premenopausal Females Follicular Phase: 0.06-0.89 Ovulation phase: 0.12-12 Luteal phase: 1.83-23.9 Postmenopausal: <0.05-0.13 Female (Pregnant) 1 st Trimester: 11.00-44.3 2 nd Trimester: 25.40-83.3 3 rd Trimester: 58.70-214 Male <0.50
Prolactin	PROL	ng/mL	Male 2.6-13.1 Female 0 days 3.3-26.7 50 years 2.7-19.6	Male 4.0-15.2 Female No change
Triiodothyronine (T3)	T3	ng/mL	0.9-1.8	0.8-2.0
Troponin T Gen 5 (TNT5)	TNT5	ng/L	N/A	<20

Please contact our Client Service Department should you have any questions regarding this change. **Please Note:** The following assays will be tested in parallel for 6 months: Alpha-fetoprotein (AFP), Prostatic Specific Antigen (PSA), Free and Total PSA (FRPSA), Carcinoembryonic Antigen (CEA), Cancer Antigen 19-9 (CAG19), and Cancer Antigen 125 (CAG125).

Thank you for choosing Clinical Labs of Hawaii.