

Laboratory Testing Update

As of August 24th, reference ranges for the following tests will be updated to align with the most recent package inserts provided by the vendor. In the case of estradiol and progesterone, the expected ranges were determined by Roche through an improved study design for the different phases and sub-phases of the menstrual cycle of healthy women. The expected ranges for pro-BNP and free-T4 were verified by PLP through an internal study of apparently healthy males and females. If you have any questions please contact Amy Binion, Chemistry Manager, at 859 301-2077.

Estradiol

Current Reference Range
(Males)

Adults 7.63-42.6 pg/mL

New Reference Range
(Males)

Adults 11.3-43.2 pg/mL

Current Reference Range
(Females)

Follicular Phase 12.5-166
 pg/mL

Ovulation Phase 85.8-498
 pg/mL

Luteal Phase 43.8-211
 pg/mL

Postmenopause 0-54.7 pg/mL

New Reference Range
(Females)

Follicular Phase 12.4-233
 pg/mL

Ovulation Phase 41.0-398
 pg/mL

Luteal Phase 22.3-341
 pg/mL

Postmenopause 5-138 pg/mL

Progesterone

Current Reference Range
(Males)

Adults None

New Reference Range (Males)

Adults <0.05-0.15 ng/mL

Current Reference Range
(Females)

Follicular Phase 0.2-1.5 ng/mL

Ovulation Phase None

Luteal Phase 1.7-27 ng/mL

Postmenopause 0.1-0.8

ng/mL

New Reference Range (Females)

Follicular Phase 0.050-0.19
 ng/mL

Ovulation Phase 0.06-4.14 ng/mL

Luteal Phase 4.11-14.5 ng/mL

Postmenopause 0.05-0.13 ng/mL

Free-T4

Current Reference Range

Adults 0.8-2.00 ng/dL

New Reference Range

Adults 0.8-1.7 ng/dL

Pro-BNP

Current Reference Range (Adults)

0-55 years ≤ 174 pg/mL

55-75 years ≤ 319 pg/mL

≥ 75 years ≤ 718 pg/mL

New Reference Range (Males)

0-55 years ≤ 138 pg/mL

55-75years ≤ 229 pg/mL

≥ 75 years ≤ 852 pg/mL

New Reference Range (Females)

0-55 years ≤ 192 pg/mL

55-75years ≤ 353 pg/mL

≥ 75 years ≤ 624 pg/mL