



**Accession # 01036012**

**Collection Times:**

Female Sample Report  
123 A Street  
Sometown, CA 90266

2022-06-13 04:00AM (U)  
2022-06-13 06:00AM (U)  
2022-06-13 03:00PM (U)  
2022-06-13 08:00PM (U)

**DOB:** 1976-01-01

**Age:** 46

**Sex:** Female

**Last Menstrual Period:**

2022-05-25

**Ordering Provider:**

Precision Analytical

## Sex Hormones & Metabolites

TEST	RESULT	UNITS	LUTEAL*	POSTMENOPAUSAL
<b>Progesterone Metabolites (Urine)</b>				
b-Pregnanediol	Below luteal range	100.0	ng/mg	600 - 2000 60 - 200
a-Pregnanediol	Below luteal range	49.0	ng/mg	200 - 740 15 - 50
<b>Estrogens and Metabolites (Urine)</b>				
Estrone (E1)	High end of luteal range	24.01	ng/mg	12 - 26 1.0 - 7.0
Estradiol (E2)	High end of luteal range	4.00	ng/mg	1.8 - 4.5 0.2 - 0.7
Estriol (E3)	High end of luteal range	16.0	ng/mg	5 - 18 0.6 - 4.0
2-OH-E1	Below luteal range	3.58	ng/mg	5.1 - 13.1 0.3 - 2.0
4-OH-E1	Within luteal range	1.20	ng/mg	0 - 1.8 0 - 0.3
16-OH-E1	Above luteal range	2.80	ng/mg	0.7 - 2.6 0.2 - 0.6
2-Methoxy-E1	Below luteal range	1.35	ng/mg	2.5 - 6.5 0.3 - 1.4
2-OH-E2	Within luteal range	0.74	ng/mg	0 - 3.1 0 - 0.52
4-OH-E2	Within luteal range	0.41	ng/mg	0 - 0.52 0 - 0.12
Total Estrogen	Within range	54.1	ng/mg	35 - 70 3.5 - 15
<b>Metabolite Ratios (Urine)</b>				
2-OH / 16-OH-E1 Balance	Below range	1.28	ratio	2.69 - 11.83
2-OH / 4-OH-E1 Balance	Below range	2.98	ratio	5.4 - 12.62
2-Methoxy / 2-OH Balance	Below range	0.38	ratio	0.39 - 0.67
<b>Androgens and Metabolites (Urine)</b>				
<b>Range</b>				
DHEA-S	Below range	16.0	ng/mg	20 - 750
Androsterone	Within range	1195.0	ng/mg	200 - 1650
Etiocholanolone	Within range	474.6	ng/mg	200 - 1000
Testosterone	Within range	7.16	ng/mg	2.3 - 14
5a-DHT	High end of range	6.2	ng/mg	0 - 6.6
5a-Androstanediol	Above range	32.0	ng/mg	6 - 30
5b-Androstanediol	Within range	42.6	ng/mg	12 - 75
Epi-Testosterone	Within range	8.6	ng/mg	2.3 - 14

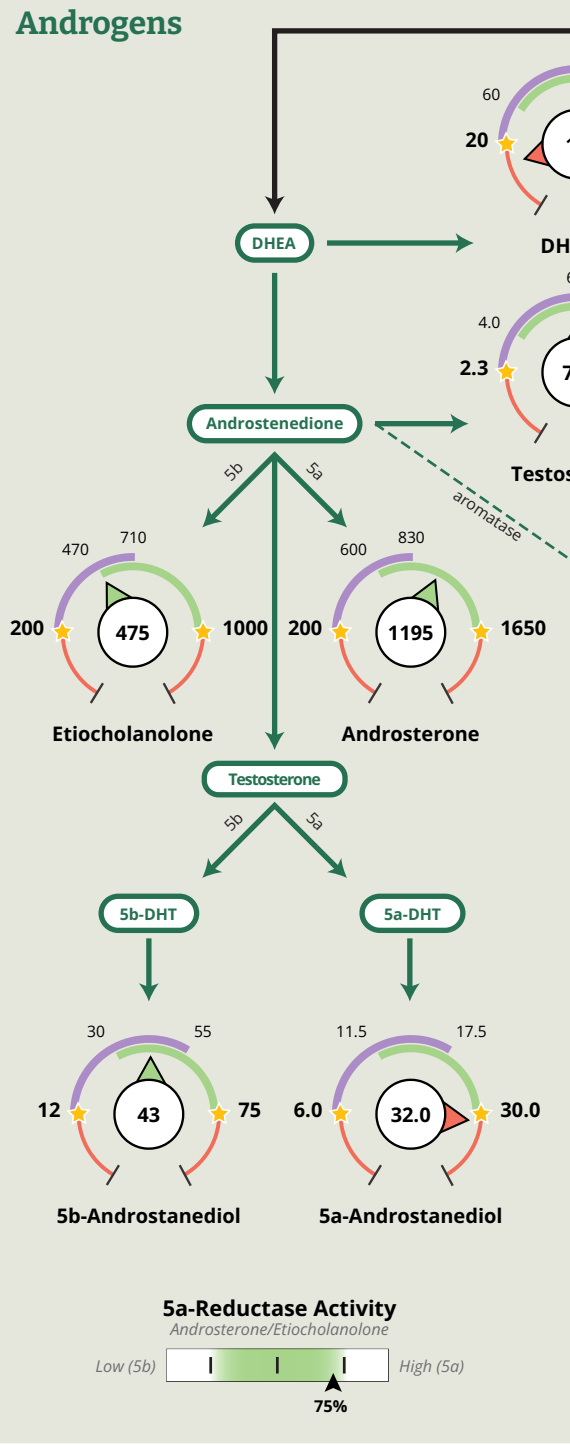
\* The Luteal Range represents the expected premenopausal luteal range, collected menstrual cycle days 19-22 of a 28-day cycle. If your patient noted taking oral progesterone, the reference range represents the expected range on 100 - 200 mg of oral micronized progesterone (OMP). The ranges in the table below represent ranges in other times of the cycle your patient may have collected, such as follicular or ovulatory phases.

ADDITIONAL NORMAL RANGES	FOLLICULAR	OVULATORY	ON ORAL PG
b-Pregnanediol	100 - 300	100 - 300	2000 - 9000
a-Pregnanediol	25 - 100	25 - 100	580 - 3000
Estrone (E1)	4.0 - 12.0	22 - 68	N/A
Estradiol (E2)	1.0 - 2.0	4.0 - 12.0	N/A

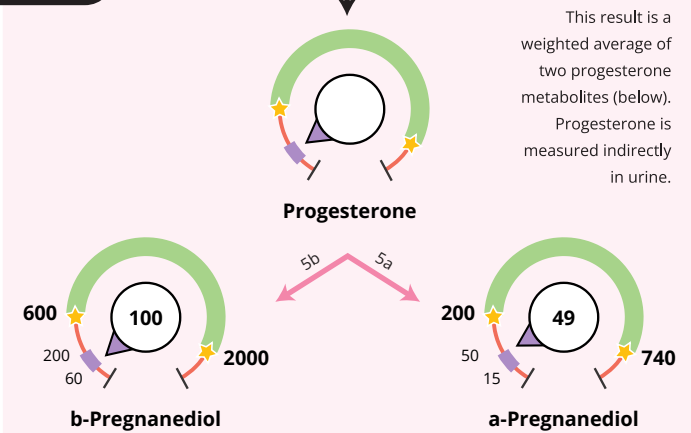
# SEX HORMONES & METABOLITES

● Optimal Luteal Range ● Postmenopausal Range ● Out of Range ★ Edge of Range

## Androgens

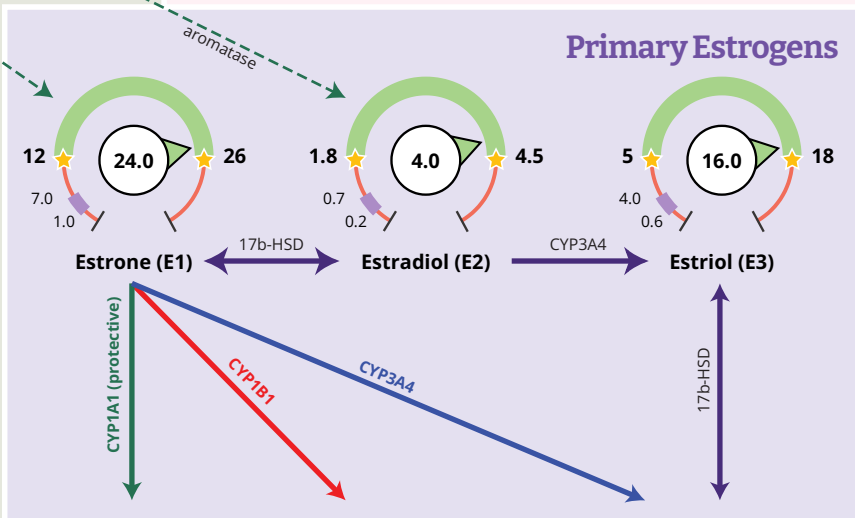


## Progesterone

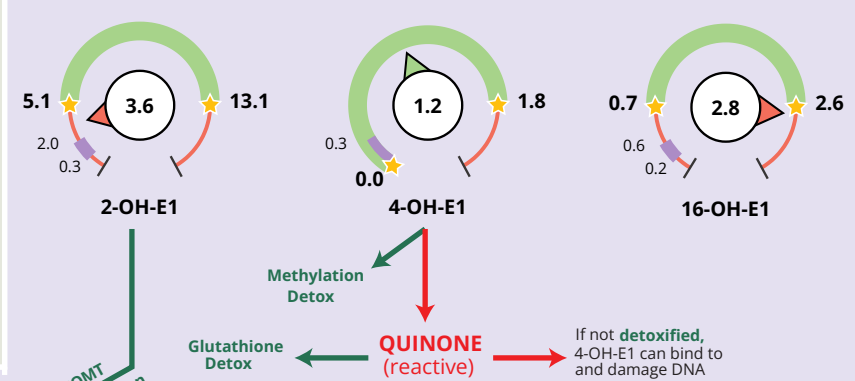


This result is a weighted average of two progesterone metabolites (below). Progesterone is measured indirectly in urine.

## Primary Estrogens



## Phase 1 Estrogen Metabolism



## Phase 2 Estrogen Metabolism

