



Accession # [REDACTED]
 Female Sample Report
 [REDACTED]
 [REDACTED]



Sex Hormones and Metabolites

Last Menstrual Period:

Ordering Provider:
 Precision Analytical

DOB: [REDACTED]
Age: [REDACTED]
Sex: Female

Collection Times:
 2024-04-25 08:00AM (S)
 2024-04-25 08:30AM (S)
 2024-04-25 09:00AM (S)
 2024-04-25 05:00PM (S)
 2024-04-25 10:00PM (S)
 2024-04-25 08:00AM (U)
 2024-04-25 10:00AM (U)
 2024-04-25 05:00PM (U)
 2024-04-25 10:00PM (U)

Test		Result	Units	Luteal*	Postmenopausal
Progesterone Metabolites (Urine)					
				Range	Range
b-Pregnanediol	Within luteal range	915.9	ng/mg	600 - 2000	60-200
a-Pregnanediol	Within luteal range	415.0	ng/mg	200 - 740	15-50
Estrogens and Metabolites (Urine)					
Estrone(E1)	Above luteal range	36.59	ng/mg	12 - 26	1.0-7.0
Estradiol(E2)	Above luteal range	6.38	ng/mg	1.8 - 4.5	0.2-0.7
Estriol(E3)	Within luteal range	10.7	ng/mg	5 - 18	0.6-4.0
2-OH-E1	Above luteal range	21.9	ng/mg	5.1 - 13.1	0.3-2.0
4-OH-E1	Within luteal range	0.64	ng/mg	0 - 1.8	0-0.3
16-OH-E1	High end of luteal range	2.4	ng/mg	0.7 - 2.6	0.2-0.6
2-Methoxy-E1	High end of luteal range	5.78	ng/mg	2.5 - 6.5	0.3-1.4
2-OH-E2	Above luteal range	1.47	ng/mg	0 - 1.2	0-0.3
4-OH-E2	High end of luteal range	0.43	ng/mg	0 - 0.5	0-0.1
Total Estrogen	Above range	86.3	ng/mg	35 - 70	4.0-15
Metabolite Ratios					
2-OH / 16-OH-E1 Balance	Within range	9.11	ratio	2.69 - 11.83	
2-OH / 4-OH-E1 Balance	Above range	34.36	ratio	5.4 - 12.62	
2-Methoxy / 2-OH Balance	Below range	0.26	ratio	0.39 - 0.67	
Androgens and Metabolites (Urine)					
DHEA-S	Above range	1280.4	ng/mg	20 - 750	
Androsterone	High end of range	1462.2	ng/mg	200 - 1650	
Etiocholanolone	Above range	1554.0	ng/mg	200 - 1000	
Testosterone	High end of range	12.44	ng/mg	2.3 - 14	
5a-DHT	Within range	2.1	ng/mg	0 - 6.6	
5a-Androstanediol	Above range	30.4	ng/mg	6 - 30	
5b-Androstanediol	Above range	88.7	ng/mg	20 - 75	
Epi-Testosterone	Within range	10.8	ng/mg	2.3 - 14	

* the Luteal Range is the premenopausal range. When patients are taking oral progesterone this range for progesterone metabolites is not luteal and reflects the higher levels expected when patients take oral progesterone. This test is intended to be taken in the luteal phase of the menstrual cycle (days 19-22 of a 28 day cycle) for premenopausal women. The ranges in the table below may be used when samples are taken during the first few days (follicular) of the cycle, during ovulation (days 11-14) or when patients are on oral progesterone. See the following pages for age-dependent ranges for androgen metabolites.

Additional Normal Ranges	Follicular	Ovulatory	Oral Pg (100mg)
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



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Adrenal

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Category	Test	Result	Units	Normal Range
Free Cortisol and Cortisone (Saliva)				
	Saliva Cortisol - Waking (W)	Low end of range	2.0	ng/mL 1.6 - 4.6
	Saliva Cortisol - W+30 min.	Below range	2.38	ng/mL 3.7 - 8.2
	Saliva Cortisol - W+60 min.	Below range	1.25	ng/mL 2.3 - 5.3
	Saliva Cortisol - Afternoon	Below range	0.21	ng/mL 0.4 - 1.5
	Saliva Cortisol - Night	Low end of range	0.13	ng/mL 0 - 0.9
	Saliva Cortisone - Waking (W)	Low end of range	8.29	ng/mL 6.8 - 14.5
	Saliva Cortisone - W+30 min.	Within range	14.77	ng/mL 12.4 - 19.4
	Saliva Cortisone - W+60 min.	Low end of range	10.01	ng/mL 9.4 - 15.3
	Saliva Cortisone - Afternoon	Low end of range	2.41	ng/mL 2 - 7.1
	Saliva Cortisone - Night	Within range	1.25	ng/mL 0 - 4.8
	Saliva Cortisol Total	Below range	5.97	ng/mL 9.6 - 19.3
	Saliva Cortisone Total	Low end of range	36.73	ng/mL 36 - 55
Creatinine (Urine)				
	Creatinine A (Waking)	Within range	0.3	mg/ml 0.2 - 2
	Creatinine B (Morning)	Within range	0.3	mg/ml 0.2 - 2
	Creatinine C (Afternoon)	Within range	0.49	mg/ml 0.2 - 2
	Creatinine D (Night)	Within range	0.41	mg/ml 0.2 - 2
Cortisol Metabolites and DHEA-S (Urine)				
	a-Tetrahydrocortisol (a-THF)	Within range	265.1	ng/mg 75 - 370
	b-Tetrahydrocortisol (b-THF)	Within range	1743.3	ng/mg 1050 - 2500
	b-Tetrahydrocortisone (b-THE)	Within range	2441.3	ng/mg 1550 - 3800
	Metabolized Cortisol (THF+THE)	Within range	4449.7	ng/mg 2750 - 6500
	DHEA-S	Above range	1280.4	ng/mg 20 - 750



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Organic Acid Tests (OATs)

Last Menstrual Period:

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Sex: Female

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Category	Test	Result	Units	Normal Range
Nutritional Organic Acids				
Vitamin B12 Marker (may be deficient if high) - (Urine)				
	Methylmalonate (MMA)	Within range	1.0 ug/mg	0 - 2.5
Vitamin B6 Markers (may be deficient if high) - (Urine)				
	Xanthurenate	Within range	0.88 ug/mg	0.12 - 1.2
	Kynurenate	Within range	2.9 ug/mg	0.8 - 4.5
Biotin Marker (may be deficient if high) - (Urine)				
	b-Hydroxyisovalerate	Within range	6.7 ug/mg	0 - 12.5
Glutathione Marker (may be deficient if low or high) - (Urine)				
	Pyroglutamate	Within range	37.2 ug/mg	28 - 58
Gut Marker (potential gut putrefaction or dysbiosis if high) - (Urine)				
	Indican	Within range	54.1 ug/mg	0 - 100
Neuro-related Markers				
Dopamine Metabolite - (Urine)				
	Homovanillate (HVA)	Low end of range	4.1 ug/mg	3 - 11
Norepinephrine/Epinephrine Metabolite - (Urine)				
	Vanilmandelate (VMA)	Low end of range	2.3 ug/mg	2.2 - 5.5
Neuroinflammation Marker - (Urine)				
	Quinolate	Within range	3.8 ug/mg	0 - 9.6
Additional Markers				
Melatonin (*measured as 6-OH-Melatonin-Sulfate) - (Urine)				
	Melatonin* (Waking)	Low end of range	24.5 ng/mg	10 - 85
Oxidative Stress / DNA Damage, measured as 8-Hydroxy-2-deoxyguanosine (8-OHdG) - (Urine)				
	8-OHdG (Waking)	Low end of range	0.7 ng/mg	0 - 5.2