



Accession # [REDACTED]
 Male Sample Report
 [REDACTED]
 [REDACTED]



Sex Hormones and Metabolites

Ordering Provider:
 Precision Analytical

DOB: [REDACTED]
 Age: [REDACTED]
 Sex: Male

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)

Category	Test	Result	Units	Normal Range
Progesterone Metabolites (Urine)				
	b-Pregnanediol	Within range	175.7	ng/mg 75 - 400
	a-Pregnanediol	Within range	69.2	ng/mg 20 - 130
Estrogens and Metabolites (Urine)				
	Estrone(E1)	Within range	13.33	ng/mg 4 - 16
	Estradiol(E2)	Within range	1.49	ng/mg 0.5 - 2.2
	Estriol(E3)	Within range	2.7	ng/mg 2 - 8
	2-OH-E1	Within range	1.69	ng/mg 0 - 5.9
	4-OH-E1	Within range	0.13	ng/mg 0 - 0.8
	16-OH-E1	Within range	0.28	ng/mg 0 - 1.2
	2-Methoxy-E1	Within range	1.25	ng/mg 0 - 2.8
	2-OH-E2	Within range	0.18	ng/mg 0 - 0.6
	4-OH-E2	Within range	0.06	ng/mg 0 - 0.3
	Total Estrogen	Within range	21.1	ng/mg 10 - 34
Metabolite Ratios				
	2-OH / 16-OH-E1 Balance	Within range	6.05	ratio 2.85 - 9.88
	2-OH / 4-OH-E1 Balance	Above range	12.76	ratio 6.44 - 12.6
	2-Methoxy / 2-OH Balance	Above range	0.74	ratio 0.4 - 0.7
Androgens and Metabolites (Urine)				
	DHEA-S	Above range	2445.4	ng/mg 30 - 1500
	Androsterone	High end of range	2844.4	ng/mg 500 - 3000
	Etiocholanolone	Within range	891.5	ng/mg 400 - 1500
	Testosterone	Within range	52.96	ng/mg 25 - 115
	5a-DHT	Within range	10.8	ng/mg 5 - 25
	5a-Androstanediol	Within range	143.6	ng/mg 30 - 250
	5b-Androstanediol	Within range	190.4	ng/mg 40 - 250
	Epi-Testosterone	Within range	62.9	ng/mg 25 - 115



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Adrenal

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Category	Test	Result	Units	Normal Range
Free Cortisol and Cortisone (Saliva)				
	Saliva Cortisol - Waking (W)	Within range	2.76	ng/mL 1.6 - 4.6
	Saliva Cortisol - W+30 min.	Within range	5.02	ng/mL 3.7 - 8.2
	Saliva Cortisol - W+60 min.	Within range	3.8	ng/mL 2.3 - 5.3
	Saliva Cortisol - Afternoon	Below range	0.22	ng/mL 0.4 - 1.5
	Saliva Cortisol - Night	Within range	0.14	ng/mL 0 - 0.9
	Saliva Cortisone - Waking (W)	Within range	9.47	ng/mL 6.8 - 14.5
	Saliva Cortisone - W+30 min.	Within range	14.34	ng/mL 12.4 - 19.4
	Saliva Cortisone - W+60 min.	Within range	13.65	ng/mL 9.4 - 15.3
	Saliva Cortisone - Afternoon	Below range	1.93	ng/mL 2 - 7.1
	Saliva Cortisone - Night	Within range	1.72	ng/mL 0 - 4.8
	Saliva Cortisol Total	Within range	11.94	ng/mL 9.6 - 19.3
	Saliva Cortisone Total	Within range	41.11	ng/mL 36 - 55
Creatinine (Urine)				
	Creatinine A (Waking)	Within range	1.29	mg/ml 0.3 - 3
	Creatinine B (Morning)	Within range	0.93	mg/ml 0.3 - 3
	Creatinine C (Afternoon)	Within range	0.67	mg/ml 0.3 - 3
	Creatinine D (Night)	Within range	0.68	mg/ml 0.3 - 3
Cortisol Metabolites and DHEA-S (Urine)				
	a-Tetrahydrocortisol (a-THF)	Above range	732.1	ng/mg 175 - 700
	b-Tetrahydrocortisol (b-THF)	Low end of range	1904.3	ng/mg 1750 - 4000
	b-Tetrahydrocortisone (b-THE)	Within range	3642.7	ng/mg 2350 - 5800
	Metabolized Cortisol (THF+THE)	Within range	6279.1	ng/mg 4550 - 10000
	DHEA-S	Above range	2445.4	ng/mg 30 - 1500



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Organic Acid Tests (OATs)

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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	1.7 ug/mg	0 - 3.5
Vitamin B6 Markers (may be deficient if high) - (Urine)				
	Xanthurenate	Within range	1.21 ug/mg	0.2 - 1.9
	Kynurenate	Within range	3.7 ug/mg	1 - 6.6
Biotin Marker (may be deficient if high) - (Urine)				
	b-Hydroxyisovalerate	Within range	8.2 ug/mg	0 - 18
Glutathione Marker (may be deficient if low or high) - (Urine)				
	Pyroglutamate	Within range	51.0 ug/mg	38 - 83
Gut Marker (potential gut putrefaction or dysbiosis if high) - (Urine)				
	Indican	Within range	16.4 ug/mg	0 - 131
Neuro-related Markers				
Dopamine Metabolite - (Urine)				
	Homovanillate (HVA)	Low end of range	4.9 ug/mg	4 - 16
Norepinephrine/Epinephrine Metabolite - (Urine)				
	Vanilmandelate (VMA)	Within range	3.7 ug/mg	2.5 - 7.5
Neuroinflammation Marker - (Urine)				
	Quinolate	Within range	7.3 ug/mg	0 - 12.5
Additional Markers				
Melatonin (*measured as 6-OH-Melatonin-Sulfate) - (Urine)				
	Melatonin* (Waking)	Within range	61.2 ng/mg	10 - 85
Oxidative Stress / DNA Damage, measured as 8-Hydroxy-2-deoxyguanosine (8-OHdG) - (Urine)				
	8-OHdG (Waking)	Within range	3.0 ng/mg	0 - 8.8