



Order: SAMPLE REPORT

Client #: 12345 Doctor: Sample Doctor Doctor's Data, Inc. 3755 Illinois Ave. St. Charles, IL 60174 Patient: Sample Patient

Age: 54 Sex: Female

Menopausal Status: Post-menopausal

 Sample Collection
 Date/Time

 Date Collected
 02/22/2022

 AM30
 02/22/2022 06:00

 Noon
 02/22/2022 12:00

 Evening
 02/22/2022 17:00

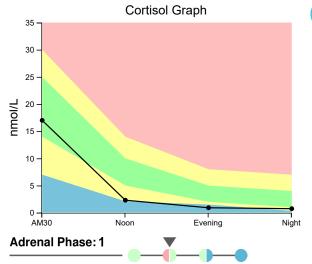
 Night
 02/22/2022 22:00

 Date Received
 02/23/2022

Date Reported

02/24/2022

Analyte	Result	Unit	L	WRI	н	Optimal Range	Reference Interval
Cortisol AM30	17	nmol/L		\rightarrow		14.0 – 25.0	7.0 – 30.0
Cortisol Noon	2.3	nmol/L	(>		5.0 – 10.0	2.1 – 14.0
Cortisol Evening	0.91	nmol/L	+			2.0-5.0	1.5-8.0
Cortisol Night	0.74	nmol/L		>		1.0 – 4.0	0.33 – 7.0
DHEA*	85	pg/mL	+				106 – 300



Hormone Comments

- AM cortisol level appears adequate, although the suboptimal diurnal cortisol pattern is suggestive of early (Phase 1) HPA axis (adrenal gland) dysfunction.
- DHEA levels typically decline with age and the level measured here is below the reference range. Note: Supplementation with DHEA may increase testosterone and/or estradiol levels.

Notes:

The current samples are routinely held three weeks from receipt for additional testing.

RI= Reference Interval, L (blue) = Low (below RI), WRI (green) = Within RI (optimal), WRI (yellow) = Within RI (not optimal), H (red) = High (above RI)

*This test was developed and its performance characteristics determined by Doctor's Data Laboratories in a manner consistent with CLIA requirements. The U. S.

Food and Drug Administration (FDA) has not approved or cleared this test; however, FDA clearance is not currently required for clinical use. The results are not intended to be used as a sole means for clinical diagnosis or patient management decisions.

Methodology: Enzyme Immunoassay





Order: SAMPLE REPORT

Client #: 12345
Doctor: Sample Doctor
Doctor's Data, Inc.
3755 Illinois Ave.
St. Charles, IL 60174

Patient: Sample Patient

Age: 54 Sex: Female

Menopausal Status: Post-menopausal

 Sample Collection
 Date/Time

 Date Collected
 02/22/2022

 AM30
 02/22/2022 06:00

 Noon
 02/22/2022 12:00

 Evening
 02/22/2022 17:00

 Night
 02/22/2022 22:00

 Date Received
 02/23/2022

 Date Reported
 02/24/2022

Analyte	Result	Unit	L	WRI	Н	Reference Interval	Supplementation Range**
Estrone (E1)*	32.8	pg/mL		\rightarrow		< 35	
Estradiol (E2)	0.60	pg/mL		\rightarrow		0.5 - 3.2	1.0-6.0
Estriol (E3)*	<5.0	pg/mL	1			7.5-66	45-680
EQ (E3 / (E1 + E2)) Ratio	0.15		1			≥ 1.0	
Progesterone (Pg)	30	pg/mL		\Diamond		18 – 130	400 – 4000
Pg/E2 Ratio [†]	50.0						≥200
Testosterone	13	pg/mL		\rightarrow		6-49	25-60
DHEA*	85	pg/mL	+			106 – 300	



Hormone Comments

- Suboptimal estradiol may warrant supplementation for bone, brain, vascular, and cognitive benefits.
- · Low estriol levels are often associated with vaginal dryness.
- Henry Lemon MD developed the Estrogen Quotient (EQ), a simple ratio of the cancer protective E3 relative to the proliferative estrogens E1 and E2, to assess breast cancer risk. A lower number (<1.0) indicates increased risk, and a higher number (>1.0) signifies lower risk. Dr. Lemon stated that for maximum protection, an optimal EQ is >1.5.
- · The Estrogen Quotient (EQ) is low. Estriol supplementation is a consideration to balance this quotient and reduce associated risks.
- A lack of ovulation in menopause results in a state of progesterone insufficiency. An in range Pg/E2 ratio in this stage is only attainable with progesterone supplementation. Progesterone supplementation is a consideration to benefit breast tissue, mood, cognition, cardiovascular and bone health.
- DHEA levels typically decline with age and the level measured here is below the reference range. Note: Supplementation with DHEA may
 increase testosterone and/or estradiol levels.
- Supplementation reference ranges are based on adherence to proper dosage interval(s). Please visit https://www.DoctorsData.com/Resources/BestPractices.pdf for more information.

Notes:

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[†]The Pg/E2 ratio is an optimal range established based on clinical observation. Reference intervals for Pg/E2 ratio have not been established in males and post-menopausal women who are not supplementing with progesterone and/or estrogens.

**If supplementation is reported then the supplementation ranges will be graphed. The supplementation ranges depicted are for informational purposes only and were derived from a cohort of adult men and women utilizing physiologic transdermal bioidentical hormone therapy.

Methodology: Enzyme Immunoassay





Order: SAMPLE REPORT

Test: U123456-7890 Client #: 12345 **Doctor:** Sample Doctor Doctor's Data, Inc. 3755 Illinois Ave. St. Charles, IL 60174

Patient: Sample Patient

Age: 54 Sex: Female

Body Mass Index (BMI): 20.0

Sample Collection Date/Time **Date Collected** Wake Up Time **Collection Period**

03/02/2022 07:30 1st morning void

Date Received 03/03/2022 03/04/2022 **Date Reported**

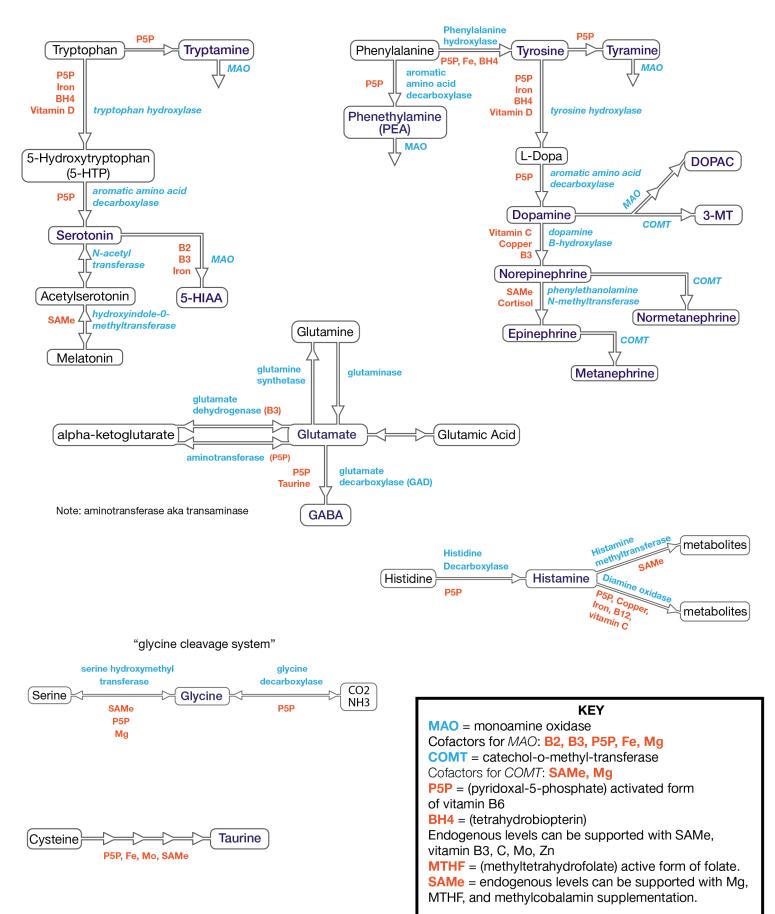
Analyte	Result	Unit per Creatinine	L	WRI	н	Reference Interval
Serotonin	90.7	μg/g		<u> </u>		60 – 125
Dopamine	190	μg/g		A		125 – 250
Norepinephrine	14.6	μg/g				22-50
Epinephrine	0.9	μg/g				1.6-8.3
Norepinephrine / Epinephrine ratio	16.2					< 13
Glutamate	15	nmol/g		A		12.0 – 45.0
Gamma-aminobutyrate (GABA)	6	nmol/g				2.0-5.6
Glycine	974	nmol/g				450 – 2200
Histamine	12	μg/g				14 – 44
Phenethylamine (PEA)	38	nmol/g				32-84
Creatinine	72.3	mg/dL	4			30-225



Neurotransmitter Comments:

- Urinary neurotransmitter levels provide an overall assessment of the body's ability to make and break down neurotransmitters and are representative of whole body levels. Neurotransmitters are secreted all through the body, in neurons of both the central and peripheral nervous systems. The enzymes, cofactors and precursors in neurotransmitter metabolism in general are the same in the periphery and in the central nervous system. Therefore, alterations in urinary neurotransmitter levels assessed in urine provide important clinical information, and may be associated with many symptoms including cognitive and mood concerns, diminished drive, fatigue and sleep difficulties, cravings, addictions and
- Low norepinephrine and low epinephrine may be associated with depression and mood changes as well as fatigue, difficulty concentrating, decreased ability to stay focused on tasks and diminished sense of personal/professional drive. Norepinephrine is converted from dopamine requiring vitamin C, copper and niacin (B3). L-tyrosine, L-theanine and Mucuna pruriens influence this pathway.
- Elevated N/E ratio is consistent with poor conversion of norepinephrine to epinephrine. This conversion is driven by the phenylethanolamine Nmethyltransferase (PNMT) enzyme that requires SAMe, magnesium and cortisol (adequate HPA axis function) as cofactors. Suggest interpretation in context of cortisol levels/HPA axis function, with subsequent optimization of HPA axis function when clinically warranted.
- Elevated GABA may contribute to difficulty concentrating, diminished memory, dampened mood and decreased cognitive processing as well as fatigue, decreased exercise endurance, sleepiness and an inability to feel alert. Elevated GABA levels may be compensatory in the presence of elevated excitatory neurotransmitters, and may result with gabapentin use. L-theanine may modulate the effects of elevated GABA levels. Elevated GABA levels may be associated with bacterial overgrowth (i.e. urinary tract infection or gastrointestinal dysbiosis).
- Low histamine may affect digestion and appetite control, learning, memory, and mood, and may result in drowsiness. Histamine has been noted to modulate neurotransmitter release from neurons. Histamine levels may be supported by consumption of high-protein foods and whole grains, as well as L-histidine supplementation. Vitamin B6 is a cofactor for histamine synthesis.
- Considerations to address the demonstrated imbalances beyond the identified co-factors and amino acid precursors may include dosage adjustments if indicated, as well as nervine and adaptogenic herbs, methylation support, vitamin D, and gastrointestinal health optimization.





Cofactors =

Enzymes =