Endocrinology



- Salivary Sex Steroid Hormones and Adrenal/HPA Axis Function
- Hormone and Urinary Metabolites Assessment Profile (HuMapTM)
- Neurotransmitter and Metabolites Profiles
- Thyroid Profile



Endocrinology

Doctor's Data offers analysis of hormones, neurotransmitters, and metabolites that may impact symptoms, metabolic function, mood or behavior.

Salivary Sex Steroid Hormones and HPA Axis/Adrenal Function 🎽



Saliva Testing

Saliva contains only the active, bioavailable portion of the body's hormones, which are secreted in a pulsatile manner. Doctor's Data salivary testing accounts for the normal pulsatile secretion of hormones by averaging 4 collections to give a better idea of how best to treat. This method is noninvasive, and easy to collect, which is particularly beneficial for diurnal cortisol, CAR (Cortisol Awakening Response), and luteal surge testing. Many providers consider saliva testing for determining clinical diagnosis and to monitor any route of hormone replacement therapy. Saliva testing is the matrix of choice to monitor transdermal and sublingual hormone therapies.

Order: SAMPLE REPOI	RT		Patient: Age: 39 Sex: Fer	Sample Patie	ent	pausal	Sample Date Co AM30 Noon Evening Night Date Red Date Red	Collection llected ceived	Date/Time 04/05/2022 04/05/2022 06:00 04/05/2022 12:00 04/05/2022 17:00 04/05/2022 19:00 04/06/2022 04/07/2022
Analyte	Result	Unit	L	WRI	н	Referen	ce interval	Supplem	entation Range**
Estrone (E1)*	29.0	pg/mL				0-35			
Estradiol (E2)	0.60	pg/mL				0.6-4.5		1.0-6.0	
Estriol (E3)*	<5.0	pg/mL				7.5-66		45-680	
EQ (E3 / (E1 + E2)) Ratio	0.17					≥ 1.0			
Progesterone (Pg)	26	pg/mL				127 – 44	6	400-400	0
Pg/E2 Ratio⁺	43.3					> 200		≥200	
Testosterone	7	pg/mL				6-49		25-60	
DHEA*	15	pg/mL				106-30	D		

Hormone Comments (**H**)

· Low estriol levels are often associated with vaginal dryness.

- Low estriol levels are often associated with vaginal dryness. Henry Lemo 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. Progesterone to estradiol (Pg/E2) ratio is consistent with progesterone insufficiency (estrogen dominance). Supplementation with progesterone to correct this relative deficiency is a consideration depending on the clinical picture. Note: The progesterone tevel is suggestive of an anovulatory cycle or luteal phase defect. Query BCP usage. DHEA levels bylically 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 <u>https://www.DectorsData.com/Resources/BestPractices.pdf</u> for more information.

Notes: The current samples are routinely held three weeks from receipt for additional testing. *RI = Reference Interval, L. Otuoj – 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. The PgE2 ratio is an optimal range established based on clinical observation. Reference intervals for PgE2 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 cohord of adult men and women utilizing physiologic transformal bioldentical hormone therapy. Methodology: Enzyme Immunoassay Anatyzed to DOCIGER DATA. No. '2750 lines Avenue, BL Charles, IL 60174-2202 USA-14.8 DIR Erio Reh. MD - CLIA ID 1402464* nents. The U.S.

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HPA Axis/Adrenal Function Testing

Cortisol profiles from Doctor's Data require four saliva samples taken at 30 minutes post-awakening, noon, dinner and bed time. These points capture the diurnal rhythm of cortisol secretion and can identify dysregulation in the natural cortisol circadian rhythm.

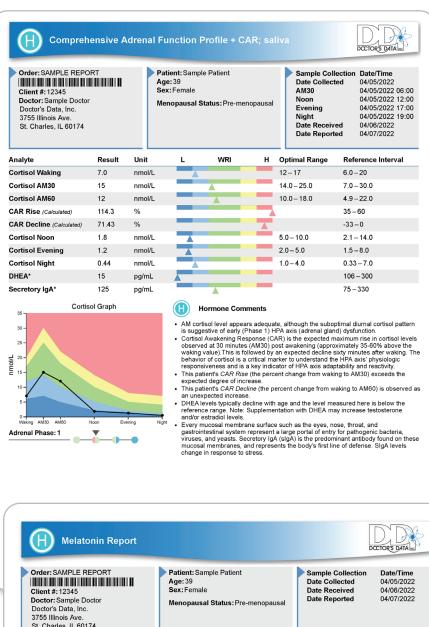
The cortisol awakening response (CAR) is the natural rise in cortisol that is seen minutes after awakening, followed by a noticeable drop within 60 minutes. CAR can be utilized as a biomarker for assessment of the HPA axis function in routine clinical practice—it can be influenced by overall HPA reactivity, as well as a person's anticipation of stress. Combined with the 30-minute postawakening collection, Doctor's Data measures CAR with two additional saliva collections—one immediately upon waking and the other at 60 minutes post-awakening. The CAR Profile can be ordered alone or added to any cortisol profile with an AM30 collection.

Secretory IgA (slgA)

SIgA is most often measured in stool or saliva. Measuring sIgA in stool can reveal information about gut immunity, inflammation, recent or current infections, and potential acute or chronic stress generally associated with GALT (gut-associated lymphoid tissue). SIgA measured in the saliva primarily provides insight into the body's stress response. However, there is some evidence that activated B cells can migrate from GALT to salivary glands, which could potentially demonstrate systemic inflammation and possibly link GI pathology via salivary sampling.

Melatonin

Melatonin is a hormone that also acts as a neurotransmitter. It is the major indole compound synthesized by the pineal gland and is converted from serotonin. Melatonin levels follow a diurnal rhythm



St. Charles, IL 60174						
Analyte	Result	Unit	L	WRI	н	Reference Interval
Melatonin Morning*	5.3	pg/mL				3.0-25
Melatonin Evening*	2.0	pg/mL				1.4-19
Melatonin Night*	<1.4	pg/mL				4.3-25

in response to the light/dark cycle, with melatonin and light occurring at opposite times. Endogenous melatonin production begins rising approximately two hours before bedtime, provided light is dim. Melatonin and cortisol share an inverse relationship—when melatonin levels are low, cortisol levels should be high, and vice versa.

Clinical Relevance and Patient Compliance

Free, unbound sex steroid hormones can fluctuate throughout the day and thus have many peaks and troughs. In order to obtain the most clinically accurate and truly representative results of an individual's hormone status, Doctor's Data averages four saliva specimens, collected throughout the day, to minimize the risk of reporting a peak or trough. We go an extra step to deliver the most clinically relevant results—a fifth tube of saliva is created by pooling an equal amount of saliva from each of the four submitted samples. This pooled tube is mixed thoroughly to provide homogenization and becomes the saliva source from which estriol, estradiol, estrone, progesterone, testosterone and DHEA are measured. This additional effort provides a far superior reflection of each patient's hormonal status. Convenient, easy and low-stress sample collection, with no needles or 24-hour urine collection, greatly increases patient compliance.

Doctor's Data pooled tube methodology equalizes hormone peaks and troughs for a more precise illustration of your patients' sex hormone status

Salivary Hormone and HPA Axis/Adrenal Function Profiles

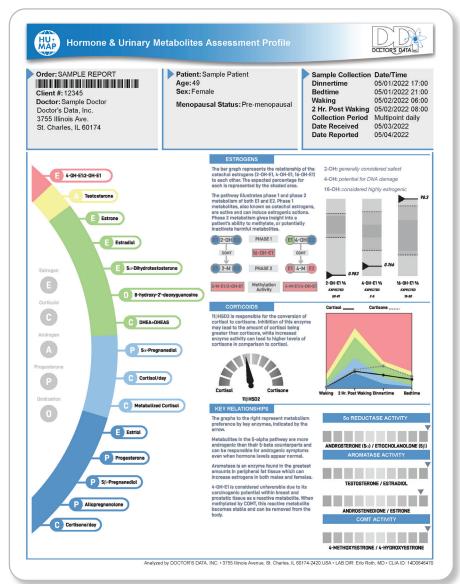
	Comprehensive Plus Profile	Comprehensive Hormone Profile	Basic Hormone Profile	Comprehensive Adrenal Function Profile	Adrenal Function Profile	Diurnal Cortisol Profile	CAR Profile	Melatonin Profile
Estrone	1							
Estradiol	1	1	1					
Estriol	1							
Progesterone	1	1	1					
Testosterone	✓	1	1					
DHEA	\checkmark	✓	\checkmark	\checkmark	\checkmark			
Cortisol	x4	x4	x2	x4	x4	x4	x3	
Melatonin								x3
sIgA				✓				
PG/E2 Ratio	\checkmark	✓	\checkmark					
Estrogen Quotient	1							

CAR, slgA and melatonin can be added to profiles. Smaller profiles and single-analyte tests are also available. Call Doctor's Data for assistance in selecting the tests that will maximize value for your patients.

Hormone and Urinary Metabolites Assessment Profile (HuMap™)

The Hormone and Urinary Metabolite Assessment Profile (HuMap[™]) provides a complete overview of steroid hormones, their metabolites, and the efficiency of the enzymes that metabolize these hormones. This non-invasive test requires only 4 or 5 separate urine collections. Because the breakdown of hormones relies so heavily on processes within the liver, this test can also elucidate areas of interest as it pertains to conjugation of each metabolite. Additionally, testing urinary hormone metabolites can contribute to further understanding of endogenous hormone secretion, supplemental hormone utilization, enzyme activity, oxidative stress, and insight into whether your body is safely metabolizing hormones.

- Color-coded results and expanded metabolic pathways specific to each patient
- Summary page to highlight important findings
- Key enzyme activity
- Full commentary



Comprehensive Hormone and Metabolite Markers Available in the HuMap™

- Extensive estrogen metabolites available: E1, E2, E3, 2-OH-E1/ E2, 4-OH-E1/E2, 16-OH-E1, 2-Methoxy-E1/E2, 4-Methoxy-E1/E2
- Comprehensive androgens and metabolites
- Progesterone and metabolites
- Daily cortisol (5), Daily cortisone (5)
- Metabolized cortisol, cortisone, and corticosterone
- Key enzyme activity: COMT, 11βHSD2, aromatase, and 5α-reductase
- Biomarker for Oxidative DNA Damage: 8-hydroxy-2'deoxyguanosine (8-OHdG)

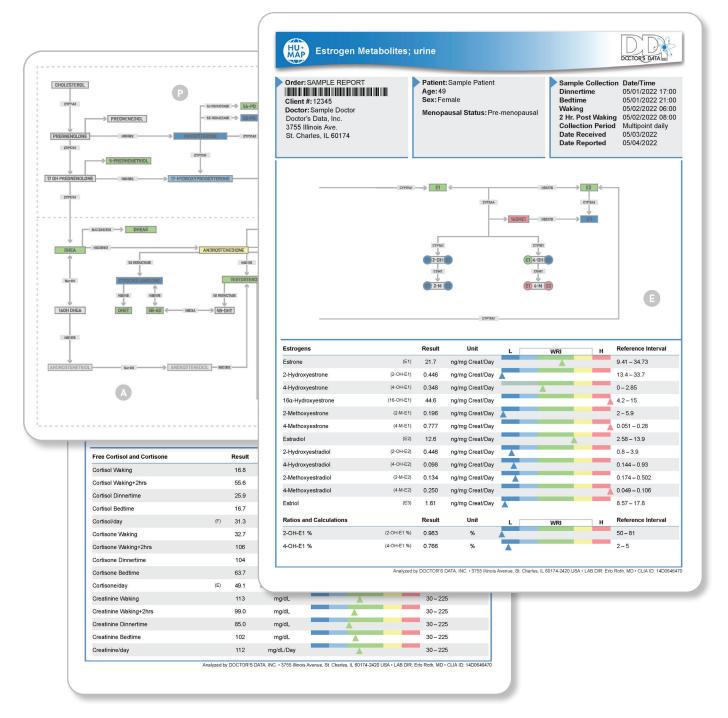


The HuMapTM is the most comprehensive urinary metabolite profile offered by Doctor's Data and is designed to provide deep insight into the secretion and metabolism of unconjugated sex hormones and their metabolites, and the enzymes that fuel

these conversions. Doctor's Data also offers smaller profiles that assess a more select set of hormones and metabolites, allowing for more targeted assessment for initial assessment as well as follow-up testing.

	HuMap™	Sex Hormones Profile	Androgens and Progesterones Profile	Adrenal Corticoids Profile	Estrogen Metabolites Profile
Estrogens Fractionated: E1, E2, E3, 2-OH-E1, 4-OH-E1, 16-OH-E1, 2-M-E1, 4-M-E1, 2-OH-E2, 4-OH-E2, 2-M-E2, and 4-M-E2	1	1			1
Androstenedione (A4)	1	1	1		
EPI-Testosterone (EPI-T)	1	1	1		
Testosterone (T)	1	1	1		
Androsterone (AN)	\checkmark	v	1		
11-hydroxy-Androsterone (OHAN)	\checkmark	1	1		
5a-Androstanediol (5A-AD)	\checkmark	v	1		
5-Dihydrotestosterone (5A-DHT)	1	1	1		
Etiocholanolone (ET)	\checkmark	✓	1		
11-hydroxy-Etiocholanolone (OHET)	1	1	1		
5-Androstanediol (5B-AD)	1	\checkmark	1		
Dehydroepiandrosterone (DHEA)	1	1	1	1	
Dehydroepiandrosterone Sulfate (DHEAS)	1	\checkmark	1	1	
Progesterone	1	1	1		
5-Pregnanediol (5A-PD)	1	1	1		
5-Pregnanediol (5B-PD)	1	1	1		
Allopregnanolone (ALLOP)	1	1	1		
21-Hydroxyprogesterone (21-OHP)	1	1	1		
17-Hydroxyprogesterone (17-OHP)	1	1	1		
5-pregnanetriol (metabolite of 17-OHP)	1	1	1		
Cortisol and Cortisone	x5			x5	
Corticosterone (B)	1			1	
Tetrahydrodehydrocorticosterone (THA)	1			1	
5-Tetrahydrocorticosterone (5B-THB)	1			1	
5a-Tetrahydrocorticosterone (5A-THB)	 Image: A second s			1	
11-Deoxycortisol (11-DOC)	1			1	
5a-Tetrahydrocortisol (5A-THF)	 Image: A second s			1	
5-Tetrahydrocortisol (5B-THF)	1			1	
Tetrahydrocortisone (THE)	1			1	
8-hydroxy-2'-deoxyguanosine (8-OHdG)	1				
Key Enzyme Activity	1				

Expanded Metabolic Pathways and Full Commentary included in the HuMap™



Much like a human fingerprint, metabolism is inherently unique to everyone. Understanding how the major hormones of the body are metabolized, as well as the activity of the enzymes responsible for metabolism, is a rare glimpse into a patient's health.

Convenience, Clinical Utility and Researched Methodology of the HuMap™

Enhanced Specificity and Specificity

Liquid chromatography (LC) tandem mass spectrometry (MS) is an extremely sensitive and specific way to measure many substances. In the case of urinary steroid hormone testing, LC-MS is used to determine both free hormone and their metabolite amounts in urine. Put simply, both parts work together to figure out the exact amount of each hormone component in a patient sample. LC separates hormones in a liquid urine sample, which are then injected at various times for MS analysis. MS technology monitors the injected sample for specific hormones based on their molecular weights and expected injection times (commonly called retention times). Tandem MS verifies each hormone identity based on fragmentation and determines its amount. The combination of LC and tandem MS allows for extremely sensitive and specific hormone measurements, even in samples containing similar substances that would interfere with other methods.

Ability to Test Neurotransmitters from HuMap Urine Specmens

Many of the symptoms that would drive one to test urinary metabolite imbalance in a patient (fatigue, sleep difficulties, stress, mood concerns, cognitive concerns, vasomotor symptoms) can also be influenced by neurotransmitter imbalance. Additionally, the COMT (Catechol-O-Methyltransferase) enzyme plays an essential role in estrogen metabolism as well as catecholamine metabolism. Issues with COMT activity can result in both estrogen metabolite and neurotransmitter imbalance. Adding neurotransmitter testing to HuMap provides a deeper dive into the biochemistry that may be contributing to a patient's symptom picture. Providers can choose to add on the NeuroBasic or **Comprehensive Neurotransmitter Profile** to the same urine samples for additional convenience to the patient.

Advantages of Liquid Urine Collection

The main advantage of liquid urine collection is enhanced sensitivity, especially for low concentration metabolites. Dried urine must be reconstituted from the filter paper once the sample arrives. This reconstitution can lead to loss of polar steroid metabolites or creatinine for some patient samples. With liquid urine, samples can be shipped after being frozen for 4-6 hours, can be processed faster, and concentrated further to enhance the detection of low-level analytes. Steroids are also quite stable in properly preserved liquid urine.



When to Consider the HuMap[™] for your Patients

Women

Breast Health Endometriosis PCOS PMS/PMDD Menopausal Symptoms

Men

Erectile Dysfunction Prostate Health Loss of Muscle Mass Breast Health

General

Metabolic Syndrome Thyroid Pathologies Inflammation Oxidative Stress Fatigue/Insomnia Libido Mood or Cognitive Concerns Family History of Hormone-Driven Cancers HRT/BHRT Utilization Weight Gain

Urine and Saliva Testing for BHRT

Urinary hormone and metabolite testing is uniquely suited to provide insight into how hormones and their metabolites are moving through the body as well as risk assessment from the generation of certain metabolites. When using urinary metabolite testing, the level of detectable unconjugated sex hormone levels is not representative of circulating or bioavailable tissue hormone levels, because urine is not reflective of tissue uptake. When the goal of testing is to understand bioavailable levels of hormones, salivary testing may be a better option, especially if utilizing topical hormones.

Neurotransmitter Profiles



Urinary neurotransmitter profiles provide insight into a patient's overall ability to synthesize and metabolize neurotransmitters. Neurotransmitters are secreted from pre-synaptic neurons into the synapse between nerve cells to stimulate receptors on post-synaptic neurons. These chemical messengers regulate many physical and emotional processes including movement, stress response, cognition, emotions, energy, cravings, pain and more. Doctor's Data Neurotransmitter profiles help identify alterations in urinary neurotransmitter status which may be associated with a variety of conditions from metabolic to behavioral disorders.

Value in Clinical Practice

Analysis of neurotransmitters and their metabolites provides a non-invasive assessment of neurotransmitter status. A review of current scientific literature indicates that neurotransmitter testing may be useful in a variety of areas:

Identification of Imbalances—Research indicates that urinary neurotransmitter levels may correlate with conditions such as depression and PTSD. Further clinical associations have also been made with imbalances in neurotransmitters and:

- Other mood disorders
- HPA axis (adrenal) dysfunction: fatigue, insomnia
- Loss of mental focus: ADD, ADHD, cognitive concerns
- Cravings, addiction and dependency
- Hormonal imbalances: estrogen dominance (progesterone insufficiency), estrogen deficiency, androgen imbalance
- Loss of appetite control: obesity and insulin resistance

Functional Testing - Neurotransmitter metabolism is mediated by catechol-Omethyltransferase (COMT), monoamine

Comprehensive Neu	rotran	smitter; urine				DCTOR'S DATA
Order: 999999-9999 Client #: 12345 Doctor: Sample Doctor 3755 Illinois Ave. St. Charles, IL 60174 U.S.A.	ld: Ag Se	tient: Sample Patient 999999 e: 30 x: Female dy Mass Index (BMI):	29	Sample Co Date Collec Wake Up Ti Collection I Date Receir Date Repor	ted me Period /ed	Date/Time 01/08/2022 08:50 2nd morning void 01/10/2022 01/12/2022
Analyte	Result	Unit per Creatinine	L	WRI	н	Reference Interval
Phenethylamine (PEA)	32	nmol/g				32-84
Tyrosine	94	µmol/g				32-80
Tyramine	5.3	µmol/g				2.0-4.0
Dopamine	40300	µg/g				125-250
3,4-Dihydroxyphenylacetic acid (DOPAC)	392600	hð/ð				390-1500
3-Methoxytyramine (3-MT)	7320	nmol/g				90-210
Norepinephrine	22.7	hð/ð				22-50
Normetanephrine	144	hð\ð				85-300
Epinephrine	5.8	hð/ð				1.6-8.3
Metanephrine	72	hð\ð				45 – 119
Norepinephrine / Epinephrine ratio	3.9					<13
Tryptamine	0.63	µmol/g				0.20-0.90
Serotonin	429	µg/g				60 – 125
5-Hydroxyindoleacetic acid (5-HIAA)	12420	hð\ð				2000 - 8000
Glutamate	28	µmol/g				12.0-45.0
Gamma-aminobutyrate (GABA)	4.8	µmol/g		Δ		2.0-5.6
Glycine	875	µmol/g				450-2200
Histamine	22	hð\ð				14-44
Taurine	2499	µmol/g				320 - 1000
Creatinine	12.3	mg/dL				30-225

Neurotransmitter Comments:

Utinary 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 trabiolism in general are the same in the periphery and in the central
nervous system. Therefore, alterations in urinary neurotransmitter travels assessed in urine provide important clinical information, and may be
associated with many symptoms including cognitive and mode concerns, diminished drive, fatigue and sleep difficulties, cravings, addictions and

pain. Tyrosine is the non-essential amino acid precursor for dopamine, norepinephrine and epinephrine. Increased tyrosine may exacerbate migraine headaches and hyperthyroid conditions. Elevated tyrosine levels may occur due to supplementation (phenylalanine or tyrosine), heritable enzyme defects, or liver disease. Tyrosine hydroxylase converts tyrosine into the dopamine precursor L-DOPA; BH4, Vitamin D and iron are cofactors for that enzymatic activity.

Noues: Results are creatinine corrected to account for urine dilution variations. Creatinine is not meant to be used as an indicator of renal function. Re: Reference Interval, L (Jubue)- Low (Debin R), WRI (green)- Within RI (optimal), WRI (yellow)- Within RI (not optimal), H (red)= High (above RI) Methodology: LUNG GQQ Creatinne by Jaffe Reaction

y: LCMS QQQ,Creatinine by Jaffe Reaction Analyzed by DOCTOR'S DATA, INC. • 3755 Illinois Avenue, St. Charles, IL 60174-2420 USA • LAB DIR: Erlo Roth, MD • CLIA ID: 14D0846470

oxidase (MAO), and other enzymes. Test results may provide functional information about these important enzymes.

Response to Therapy—

Neurotransmitters (serotonin, for example) may be altered by the addition of precursor amino acids such as 5-hydroxytryptophan (5-HTP). These changes may be apparent in the urine.

Toxicology Risk Assessment—Changes

in urinary neurotransmitters like serotonin, dopamine, and glutamate may be clinically relevant outcomes for neurobehavioral toxicology resulting from chemical or environmental exposures.

Which Profile to Consider

The NeuroBasic Profile offers a broad-brush assessment that covers most clinical needs and which many providers find highly clinically relevant and useful. For providers interested in a more comprehensive look at neurotransmitter secretion and the metabolism of these markers, the Comprehensive Neurotransmitter Profile includes catecholamine and serotonin metabolites, trace amines, and additional markers that expand the clinical view.

	Comprehensive Neurotransmitter Profile	NeuroBasic Profile	NeuroAdrenal Profile
		URINE	
Serotonin	\checkmark	1	1
GABA	\checkmark	1	1
Dopamine	1	1	1
Norepinephrine	\checkmark	1	\checkmark
Epinephrine	1	1	1
Glutamate	\checkmark	1	1
Histamine	1	1	1
PEA (Phenethylamine)	\checkmark	1	1
5-HIAA (5-Hydroxyindolacetic acid)	1		
Glycine	\checkmark	1	1
Taurine	1		
Tryptamine	\checkmark		
Tyroamine	1		
Tyrosine	\checkmark		
DOPAC (3,4 Dihydroxyphenylacetic acid)	1		
3-MT (3-Methoxytyramine)	\checkmark		
Metanephrine Fractionation (Metanephrine, Normetanephrine)	1		
Creatinine	\checkmark	\checkmark	\checkmark
Cortisol			x4
DHEA			✓

Thyroid Profile

The analysis of thyroid hormones and auto-antibodies together may improve the accuracy diagnosis and clinical success. The American Thyroid Association estimates that approximately 20 million Americans have thyroid disease, and approximately 60% of those with thyroid disease are unaware of their condition. Many patients with thyroid disorders may remain undiagnosed in many patients with asymptomatic or non-specific clinical presentations. The recognition of auto-immunity as a leading cause of thyroid dysfunction has led to the evaluation of auto-antibodies in thyroid testing.

Measuring only thyroid stimulating hormone (TSH) may be misleading in a variety of circumstances, including the recent treatment of thyrotoxicosis, pituitary disease, non-thyroid illness, thyroid hormone resistance or rare, TSH-secreting tumors. Under these circumstances, and in many other cases, the evaluation of thyroid hormones and thyroid antibodies may clarify the diagnosis of thyroid conditions and improve clinical success.

This test is useful for

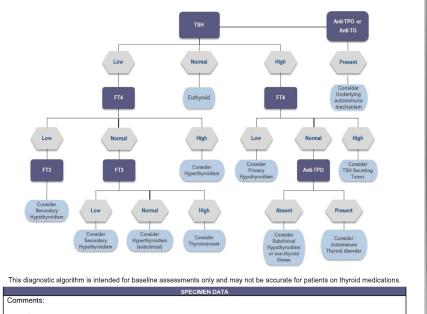
- Hypothyroid conditions
- Hyperthyroid conditions
- Autoimmune conditions
- Arrhythmia
- Infertility
- Cholesterol disorders
- Fatigue
- Pituitary disorders



Thyroid Profile; serum

LAB #: Sample Report PATIENT: Sample Patinet ID: SEX: Female DOB: 01/01/1951 AGE: 67 CLIENT #: 12345 DOCTOR: Sample Doctor Doctor's Data, Inc. 3755 Illinois Ave. St. Charles, IL 60174 U.S.A.

REFERENCE PERCENTILE RESULT / UNIT 84th 97.5th INTERVAL Free T3 3.9 pg/mL 2.2-4. Free T4 0.8 ng/dL 0.6-1.3 Thyroid Stimulating Hormone (TSH) 0.30-4. 0.01 µIU/mL Thyroglobulin Antibody (Anti-TG) 1.1 lU/mL 4.0 Thyroid Peroxidase Antibody (Anti-TPO) 250 IU/mL 9.0



Date Collected: 01/18/2022 Time Collected: Date Received: 01/20/2022 Fasting: Date Completed: 01/21/2022 Methodology: Chemiluminesescent Immunoassay

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OUR MISSION:

To research, develop and offer innovative specialty tests that help doctors identify health risks and improve outcomes for patients with chronic conditions.

To educate and support healthcare professionals.

To improve lives through science.





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About Doctor's Data

Doctor's Data, Inc. has provided innovative specialty testing to healthcare practitioners around the world from our advanced, CLIA-licensed clinical laboratory since 1972.

A specialist and pioneer in essential and toxic elemental testing, the laboratory provides a wide array of functional testing to aid in decision making and better patient outcomes. Choose Doctor's Data to help you assess and treat heavy metal burden, nutritional deficiencies, gastrointestinal function, hormone status, cardiovascular risk, liver and metabolic abnormalities, and more.