

Insight into a Wide Range of Symptoms and Conditions

- Urine and Plasma Amino Acids
- Fatty Acids, Erythrocytes
- Plasma Methylation

 Urine Halides (Iodine, Bromine and Fluoride)



Nutritional Status

Proper nutritional intake is essential to overall health and provides the raw materials the body needs to function in the form of carbohydrates, proteins, fats, vitamins and minerals.

Carbohydrates are broken down into sugars and used as energy. Protein is broken down into individual amino acids and used to build and repair muscles, the immune and nervous systems, hormones and organs. The body requires fats which function within the membranes that surround all the body's cells and are needed to signal hormones. Vitamins and minerals typically function as co-enzymes and have protective anti-inflammatory and antioxidant effects.

Doctor's Data offers a wide range of tests used to assess nutritional status and to monitor patient response to nutritional interventions.

Vitamin D (250H D2 & D3)





25-Hydroxyvitamin D, known for its role in bone health and calcium absorption, also appears to affect immune function, neurodegenerative and cardiovascular diseases, and other conditions. Vitamin D occurs in two forms—D3 is obtained from animal diet sources and through sun exposure, and D2 is obtained through vegetable diet sources. Both forms of the vitamin are used to fortify various foods and in supplements.

Doctor's Data uses the gold standard LC/ MS method to measure Vitamin D2, D3, and total Vitamin D. Vitamin D status is also available via a blood spot profile.



Vitamin D deficiency is recognized as

a worldwide concern

and is a contributing factor of many chronic debilitating diseases.

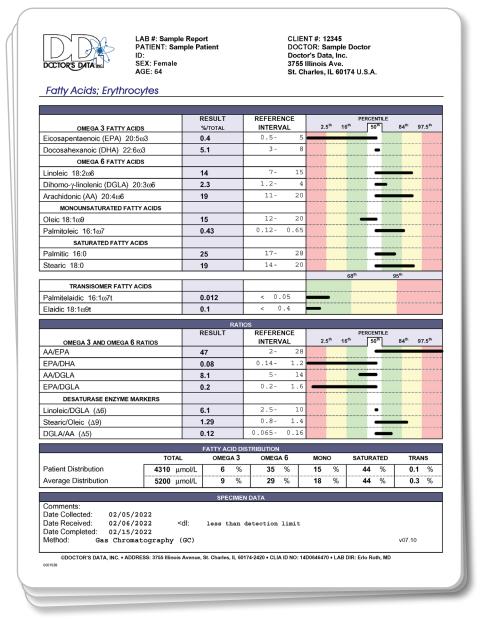


Fatty Acids, Erythrocytes



The typical Western diet contains too many carbohydrates and saturated fats, and is often imbalanced with respect to essential and non-essential fatty acid intake. Erythrocyte fatty acid analysis is used to assess levels of and balance among the essential and non-essential fatty acids required for optimal health and wellness. Essential fatty acids regulate cell membrane integrity, blood pressure and coagulation, lipid levels, immune response, tumor growth and inhibition, and the inflammatory response to injury and infection.

Erythrocyte Fatty Acid analysis aids in developing the most efficacious dietary and supplemental treatment program to restore appropriate ratios among fatty acids.



Fatty acid levels and key ratios are presented in a clear, easy-to-understand report which graphically highlights areas of concern. Result-specific commentary is also provided.

Urine and Plasma Amino Acids





Many people have hidden amino acid (AA) impairments that go undiagnosed. Rather than being associated with specific symptoms, they may be related or increase susceptibility to a degenerative disease. Because this test provides a wealth of valuable information, a complete AA analysis is recommended any time a thorough nutritional and metabolic workup is called for. Plasma is traditionally used to assess the status of essential AA, while urine analysis provides more information regarding AA wasting and aberrant metabolism associated with co-factor insufficiencies.

AA analysis aids in

- Dietary protein adequacy and AA balance
- Gastrointestinal dysfunctions
- Forms of protein intolerance
- Vitamin and mineral deficiencies
- Renal and hepatic dysfunction
- Psychiatric abnormalities
- Susceptibility to inflammatory response and oxidative stress
- Reduced detoxification capacity
- And many other inherent and acquired disorders in AA metabolism



PATIENT: Sample Patient LAB#: Sample Report DATE COLLECTED: 02/11/2022 PAGE: 2

		GASTROINTEST	INAL MARKERS		
		RESULT μM/g creatinine	REFERENCE INTERVAL		EENTILE 84 th 97.5 th
Ammonia	(NH ₄)	25900	9000- 39000		—
Ethanolamine		210	120- 330	-	-
Alpha-Aminoadipitate		18	7- 50		-
Threonine		66	48- 275	_	-
Tryptophan		15	20- 75	-	-
Taurine		270	170- 1200		-
				68 th	95 th
Beta-alanine		4.7	< 20		
Beta-aminoisobutyrate	•	27	< 300	_	
					•



LAB #: Sample Report PATIENT: Sample Patient ID: SEX: Male DOB: 01/01/1976 CLIENT #: 12345 DOCTOR: Sample Doctor Doctor's Data, Inc. 3755 Illinois Ave. St. Charles, IL 60174 U.S.A.

Amino Acids; Urine

ESSENTI	AL / CONDITIONALLY	INDISPENSABI E AMII	NO ACIDS
	RESULT μM/g creatinine	REFERENCE INTERVAL	PERCENTILE 2.5 th 16 th 50 th 84 th 97.5 th
Methionine	7.1	7- 35	
Lysine	24	35- 500	
Threonine	66	48- 275	
Leucine	21	10- 65	_
Isoleucine	7	4- 28	
Valine	23	12- 50	
Phenylalanine	19	25- 75	
Tryptophan	15	20- 75	
Taurine	270	170- 1200	
Cysteine	37	20- 57	
Arginine	13	8- 50	
Histidine	150	270- 1150	—

	NONESSENTIAL	. AMINO ACIDS						
	RESULT µM/g creatinine	REFERENC INTERVAL		2.5 th	16 th	50 th	LE 84 [#]	97.5 th
Alanine	93	100- 5	500	_				
Aspartate	3.4	6-	30	_		_		
Asparagine	45	40- 1	180			_		
Glutamine	180	145- 5	580	•		_		
Glutamate	14	8 -	45			-		
Cystine	27	20-	90		_	_		
Glycine	430	280- 28	300			_		
Tyrosine	22	23 - 1	L13	_	_	_		
Serine	200	110- 4	150			-		
Proline	4.7	1-	45		•	—		

Comments:

Date Collected: 02/11/2022 Collection Period: Random Methodology: LC MS/MS
Date Received: 02/14/2022 Volume: NH4, Urea, Creatinine by Automated
Date Completed: 02/21/2022 Chem Analyzer

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PATIENT: Sample Patient LAB#: Sample Report DATE COLLECTED: 02/11/2022 PAGE: 3

DETOXIFICATION MARKERS			
	RESULT REFERENCE PERCENTILE		
	μM/g creatinine	INTERVAL	2.5 th 16 th 50 th 84 th 97.5 th
Methionine	7.1	7- 35	
Cysteine	37	20- 57	
Taurine	270	170- 1200	
Glutamine	180	145- 580	-
Glycine	430	280- 2800	
Aspartate	3.4	6- 30	

Results are presented in a clear, easy-to-understand report which graphically illustrates target ranges and areas of concern. Result-specific commentary and a supplement schedule are provided.



PATIENT: Sample Patient LAB#: Sample Report DATE COLLECTED: 02/11/2022

SUPPLEMENTA	ATION SCHEDULE	PRESUMPTIVE NEEDS / IMPLIED CONDITIONS
-configured Amino Acids	Total Daily Oral Dose	
Tryptophan	430 mg	NEED FOR VITAMIN B6
Arginine	710 mg	
listidine	1135 mg	
oleucine	710 mg	NEED FOR FOLKEE WITAMIN DAG
eucine	970 mg	NEED FOR FOLATE, VITAMIN B12
ysine	1305 mg	
lethionine	805 mg	
henylalanine	1240 mg	NEED FOR MAGNESIUM
hreonine	610 mg	
aline	980 mg	
Pyridoxal-5-phosphate	30 mg	
Alpha-ketoglutarate	650 mg	SUSCEPTIBILITY TO VASCULAR DISEASE
aurine	145 mg	
he supplement schedule is not	intended for use by pregnant	
emales and is strictly contraind	icated for individuals with	ABNORMAL INTESTINAL MICROFLORA
suspected or known renal insuff	iciency or renal failure.	
		MALDIGESTION / MALABSORPTION
		MALDIGESTION / MALABSORPTION
		IMPAIRED DETOXIFICATION
		NEUROLOGICAL DISORDERS
		NITROGEN INSUFFICIENCY
		NTROGEN INSUFFICIENCY
		EXCESSIVE PROTEIN
		OXIDATIVE STRESS

Urine Halides (Iodine, Bromine and Fluoride)



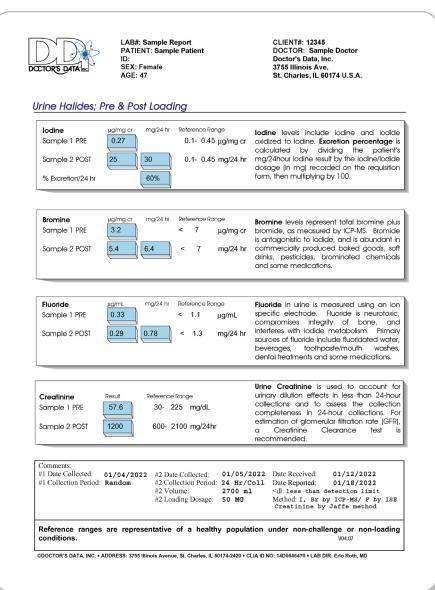
Providing comprehensive assessment of iodine sufficiency and antagonistic halides in a single test, the Urine Halides test assesses iodine as well as exposure to and retention of bromide and fluoride.

lodine is an essential element required for normal function of the thyroid gland and immune system, and the integrity of breast tissue. Bromide and fluoride are non-essential, antagonistic halides that can disrupt iodine homeostasis and function.

The test can be performed using conventional random or 24-hour urine collection or after administration of a loading dose of iodide/iodine. Iodine and bromine are measured by ICP-MS, as is used by the CDC.

This test is useful for

- Fatique
- Immune response
- Thyroid function
- Estrogen metabolism



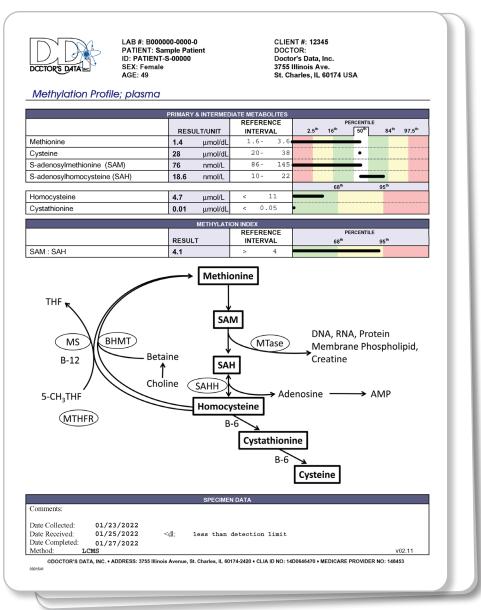
Results are presented in a clear, easy-to-understand report.

Plasma Methylation Profile



Normal metabolism of methionine is critical for cellular transmethylation of DNA, proteins and neurotransmitters. Aberrant methionine metabolism can occur in anyone—at any age—and can be associated with a variety of conditions, including cardiovascular disease and cancer.

The Plasma Methylation Profile provides a functional assessment of the phenotypic expression of common SNPs (MTHFR, MS, CBS) by evaluating the plasma levels of methionine, cysteine, SAM, SAH, homocysteine and cystathionine, and provides the key methylation index, a ratio of SAM to SAH. The results can be used to determine appropriate nutritional support to normalize methionine metabolism.



Results are presented in a clear, easy-to-understand report which graphically illustrates target ranges and areas of concern. Result-specific commentary is provided.

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.

As a pioneer in the laboratory testing industry, Doctor's Data provides a wide array of testing solutions 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.