



3425 Corporate Way Duluth, GA 30096



Patient: REPORT

SAMPLE

DOB: November 11, 1995

Sex: F

MRN: 0000002416

Order Number: O5240018

Completed: May 24, 2018 Received: May 24, 2018 Collected: May 24, 2018 Royce Powell, MSCS

Test Doctor 75 Zillicoa Street , NC 28801



3301 Organix ® Comprehensive Profile - Urine *Methodology: LC/Tandem Mass Spectrometry, Colorimetric*

Summary of Abnormal Findings			
Biomarkers	Findings	Metabolic Pathway	
Fatty Acid Metabolism	No Abnormality Found		
Carbohydrate Metabolism			
L-Lactate	H Glycolysis		
Energy Production Markers	No Abnormality Found		
B-Complex Vitamin Markers	No Abnormality Found		
Methylation Cofactor Metabolism	No Abnormality Found		
Neurotransmitter Metabolism Markers			
Homovanillate	Н	Dopamine metabolism	
5-Hydroxyindoleacetate	Н	Serotonin metabolism	
Oxidative Damage and Antioxidant Markers			
8-Hydroxy-2-deoxyguanosine	Н	Oxidative damage	
Detoxification Indicators			
Sulfate	L	Transsulfuration pathway	
Bacterial - General			
Phenylacetate	Н	Gut bacterial metabolism	
p-Hydroxyphenylacetate	Н	Gut bacterial metabolism	
L. acidophilus/general bacteria	No Abnormality Found		
Clostridial Species	No Abnormality Found		
Yeast/Fungal	No Abnormality Found		





3425 Corporate Way Duluth, GA 30096

Patient: REPORT

SAMPLE

DOB: November 11, 1995

Sex: F

MRN: 0000002416

Order Number: O5240018

Completed: May 24, 2018 Received: May 24, 2018 Collected: May 24, 2018

Royce Powell, MSCS

Test Doctor 75 Zillicoa Street , NC 28801

3301 Organix® Comprehensive Profile - Urine

Methodology: LC/Tandem Mass Spectrometry, Colorimetric

This report is not intended for the diagnosis of neonatal inborn errors of metabolism.

Ranges: Ages 13 and over

Ranges: Age	s 13 and over	Results mcg/mg creatinine	1st	QUIN 2nd	TILE DISTRIBI 3rd	UTION 4th	5th	95% Reference Range
			Nutrient	Markers				
Fatty Acid	Metabolism B2)					6.2	,	
1. Adipat	е	8.5		İ		2.1	—	<= 11.1
2. Subera	ate	2.9		1	 	3.6	→	<= 4.6
3. Ethylm	nalonate	2.0		1 🔷	l .			<= 6.3
	rate Metabolism Lipoic Acid, CoQ10)					3.9	1	
4. Pyruva	ate	<dl< td=""><td>H</td><td></td><td> </td><td> </td><td></td><td><= 6.4</td></dl<>	H		 	 		<= 6.4
5. L-Lact	ate	19.0 H		1	 	2.1	•	0.6 - 16.4
6. β-Hydi	oxybutyrate	4.5	H		11	<u> </u>		<= 9.9
	oduction (Citric Acid	Cycle)				60 ⁻	1	
7. Citrate		487		-	+	 	-	56 - 987
8. Cis-Ac	onitate	38		1	 • 	<u> </u>		18 - 78
9. Isocitra	ate	62		+	 	98 		39 - 143
10. α-Keto	glutarate	<dl< td=""><td>H</td><td>-11</td><td>l -</td><td>19.</td><td></td><td><= 35.0</td></dl<>	H	-11	l -	19.		<= 35.0
11. Succin	ate	12.9		+	 	11.	♦	<= 20.9
12. Fumar	ate	<dl< td=""><td>H</td><td>Ш</td><td>l .</td><td>0.5</td><td></td><td><= 1.35</td></dl<>	H	Ш	l .	0.5		<= 1.35
13. Malate	•	0.6		+	 ♦ 	1.4		<= 3.1
14. Hydrox	kymethylglutarate	3.2		1	 	3.6		<= 5.1

3301 Organix® Comprehensive Profile - Urine

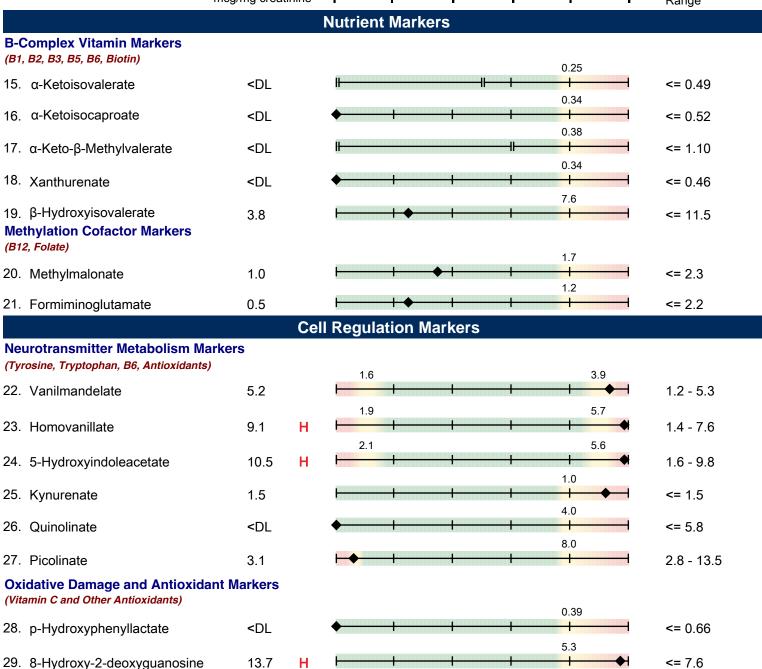
Methodology: LC/Tandem Mass Spectrometry, Colorimetric

(Units for 8-hydroxy-2-dexoyguanosine are ng/mg creatinine)

This report is not intended for the diagnosis of neonatal inborn errors of metabolism.

Ranges: Ages 13 and over



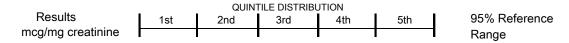


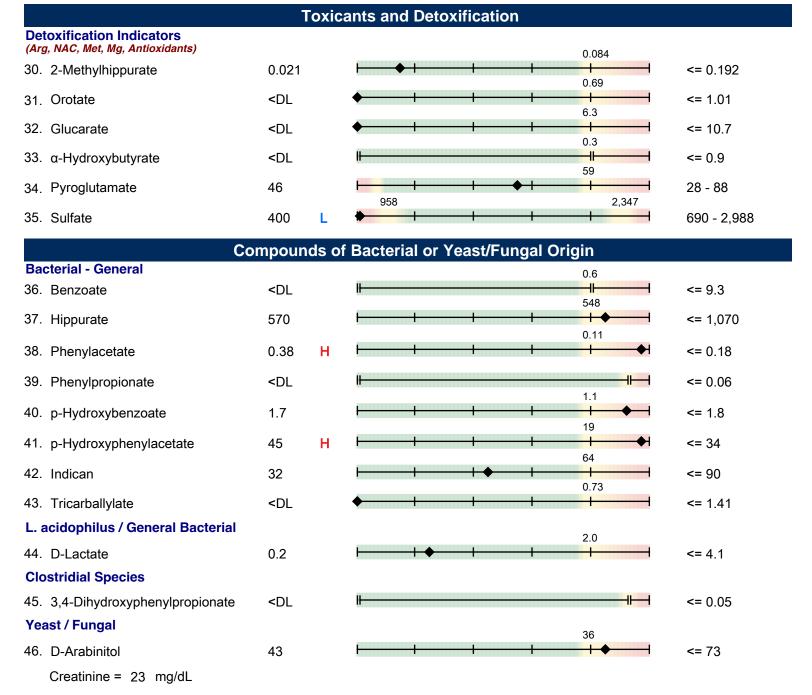
3301 Organix® Comprehensive Profile - Urine

Methodology: LC/Tandem Mass Spectrometry, Colorimetric

This report is not intended for the diagnosis of neonatal inborn errors of metabolism.

Ranges: Ages 13 and over





<DL = less than detection limit

>UL = greater than upper linearity limit

This test has been developed and its performance characteristics determined by Genova Diagnostics, Inc. It has not been cleared by the U.S. Food and Drug Administration.

3301 Organix® Comprehensive Profile - Urine



Additional Considerations

This page is provided as a starting point that may guide decisions about medical treatment based on the test results. It is derived only from the laboratory results included in this report. Final recommendations should be based on consideration of the patient's medical history and current clinical condition.

Nutrient	Nutrient Need
Vitamin C	High
Vitamin E (mixed tocopherols)	Moderate
Vitamin B-1 (Thiamin)	Low
Vitamin B-2 (Riboflavin)	Low
Vitamin B-3 (Niacin)	Low
Vitamin B-5 (Pantothenic Acid)	Low
Coenzyme Q10	Low
Lipoic Acid	Low
N-Acetylcysteine	Low
Need for other antioxidants	Moderate

Various conditionally essential nurients and other potentially beneficial interventions appear in this section only if relevant abnormalities are present.

Amino acids listed on this page result from functional markers of individual amino acid insufficiency and do not reflect amino acids measured in plasma.

3301 Organix® Comprehensive Profile - Urine



General Supplement Ranges

These supplement ranges are not adjusted for age, sex, or gender.

Nutrient supplementation is at the discretion of the treating clinician. The supplement dose ranges provided below are meant for educational purposes only. These dosage ranges relate to findings commonly found on Genova's nutritional panels and do not apply to specific disease conditions where different dosages may be warranted.

Nutrient	Adult Dosage Range*
Vitamin C	0-1000 mg
Vitamin D	0-2000 IU
Vitamin E (mixed tocopherols)	0-400 IU
Vitamin B-1 (Thiamin)	0-50 mg
Vitamin B-2 (Riboflavin)	0-50 mg
Vitamin B-3 (Niacin)	0-50 mg
Vitamin B-5 (Pantothenic Acid)	0-100 mg
Vitamin B-6 (Pyridoxine)	0-50 mg
Vitamin B-12 (Cobalamin)	0-1000 mcg
Folic Acid	0-1000 mcg
Biotin	0-400 mcg
Magnesium	0-400 mg
Selenium	0-200 mcg
Carnitine	0-1000 mg
Coenzyme Q10	0-200 mg
Lipoic Acid	0-200 mg
N-Acetylcysteine	0-1000 mg
L-Arginine	0-1000 mg
Glycine	0-3000 mg

^{*}Dosage ranges are adapted from the textbook Nutritional Medicine by Alan Gaby, M.D.1

^{1.} Gaby AR. Nutritional Medicine. Vol 265: Fritz Perlberg Publishing; 2011.