



3425 Corporate Way Duluth, GA 30096



Patient: **REPORT SAMPLE**

DOB: November 11, 1995

Sex: F

MRN: 0000002416

Order Number: 05240018

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	Н	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			



Page 2

Page 2

Varine Organic Acids

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Results

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4th

3rd

95% Reference

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5th

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

mcg/	mg creatinine	150	2110	314	401	301	Range
	1	Nutrient	Markers				
Fatty Acid Metabolism (Carnitine & B2)						6.2	
1. Adipate	8.5		1			<mark>+ → </mark> 1	<= 11.1
2. Suberate	2.9	-	+		<u> </u>	 	<= 4.6
3. Ethylmalonate	2.0		 •	l		1 1	<= 6.3
Carbohydrate Metabolism (B1, B3, Cr, Lipoic Acid, CoQ10)					;	3.9	
4. Pyruvate	<dl< td=""><td>H</td><td></td><td> </td><td> </td><td> </td><td><= 6.4</td></dl<>	H		 		 	<= 6.4
5. L-Lactate	19.0 H		1			0.5 	0.6 - 16.4
6. β-Hydroxybutyrate	4.5	H		11	1	+	<= 9.9
Energy Production (Citric Acid Cycle (B Comp., CoQ10, Amino Acids, Mg)	e)					601	
7. Citrate	487		l .		+	 	56 - 987
8. Cis-Aconitate	38		1	├	!	 	18 - 78
9. Isocitrate	62		 		 	 	39 - 143
10. α-Ketoglutarate	<dl< td=""><td>H</td><td>11</td><td>l</td><td>l</td><td>11.6</td><td><= 35.0</td></dl<>	H	11	l	l	11.6	<= 35.0
11. Succinate	12.9	-	+]	 	<= 20.9
12. Fumarate	<dl< td=""><td>1</td><td></td><td> </td><td> </td><td>1.4</td><td><= 1.35</td></dl<>	1		 		1.4	<= 1.35
13. Malate	0.6		1	I ◆	 	+	<= 3.1
14. Hydroxymethylglutarate	3.2		1	l	I ◆	3.6 	<= 5.1

3301 Organix® Comprehensive Profile - Urine

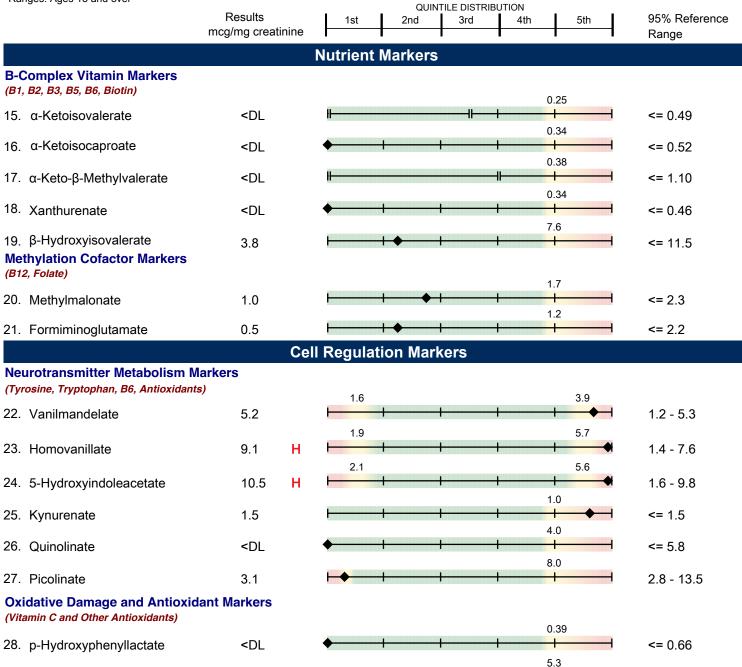
Methodology: LC/Tandem Mass Spectrometry, Colorimetric

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Ranges: Ages 13 and over

29. 8-Hydroxy-2-deoxyguanosine

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



13.7

Н

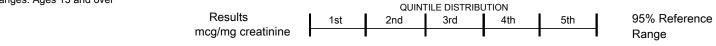
<= 7.6

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Toxicants and Detoxification Detoxification Indicators (Arg, NAC, Met, Mg, Antioxidants) 0.084 30. 2-Methylhippurate 0.021 <= 0.192 0.69 <DL <= 1.01 31. Orotate 6.3 32. Glucarate <DL <= 10.7 0.3 33. α-Hydroxybutyrate <DL <= 0.9 59 34. Pyroglutamate 46 28 - 88 2,347 958 35. Sulfate 400 690 - 2,988 Compounds of Bacterial or Yeast/Fungal Origin **Bacterial - General**

Dacteriai - Generai			0.6	
36. Benzoate	<dl< td=""><td></td><td> 548</td><td><= 9.3</td></dl<>		 548	<= 9.3
37. Hippurate	570		0.11	<= 1,070
38. Phenylacetate	0.38	Н	<u> </u>	<= 0.18
39. Phenylpropionate	<dl< td=""><td></td><td>1.1</td><td><= 0.06</td></dl<>		1.1	<= 0.06
40. p-Hydroxybenzoate	1.7		19	<= 1.8
41. p-Hydroxyphenylacetate	45	Н	64	<= 34
42. Indican	32		0.73	<= 90
43. Tricarballylate	<dl< td=""><td></td><td>+ + + + + + + + + + + + + + + + + + +</td><td><= 1.41</td></dl<>		+ + + + + + + + + + + + + + + + + + +	<= 1.41
L. acidophilus / General Bacterial			2.0	
44. D-Lactate	0.2			<= 4.1
Clostridial Species				
45. 3,4-Dihydroxyphenylpropionate	<dl< td=""><td></td><td>11-1</td><td><= 0.05</td></dl<>		11-1	<= 0.05
Yeast / Fungal			36	
46. D-Arabinitol	43			<= 73

Creatinine = 23 mg/dL

<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.

Patient: REPORT SAMPLE ID: 05240018 Page 5

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.

Page 6

ID: O5240018

3301 Organix® Comprehensive Profile - Urine

Patient: REPORT SAMPLE



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.