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Ordering Physician:

Robert David, PhD

1234 Main St. Anywhere, GA 30096 Accession #:

A1204040004 Reference #:

Sample Report

05/23/2013

Patient: 02/05/1962 Date of Birth: 50 Age: Female Sex:

Reprinted: Comment:

Date Collected: 04/03/2012

04/04/2012 Date Received:

Date of Report: 04/04/2012 Telephone: (770) 446-4583 Fax: (770) 441-2237



0091 Organix® Comprehensive Profile - Urine

Methodology: LC/Tandem Mass Spectroscopy, Colorimetric

Organix Interpretation

Organix Interpretive Guide is downloadable at: www.metametrix.com/files/test-menu/interpretive-guides/Organix-IG.pdf



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Summary of Abnormal Findings

<u>Findings</u>	Intervention Options	Common Metabolic Association
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Fatty Acid Metabolism

Adipate High Carnitine, B2 Fatty acid oxidation

Carbohydrate Metabolism

No Abnormality Found

Energy Production Markers

Citrate High Arginine Renal ammonia loading Cis-Aconitate Very High Arginine Renal ammonia loading Isocitrate Very High Arginine Renal ammonia loading

Succinate CoQ10 ATP production High **Fumarate** High CoQ10 ATP production

B-Complex Vitamin Markers

No Abnormality Found

Methylation Cofactor Markers

No Abnormality Found

Neurotransmitter Metabolism Markers

Vanilmandelate High Evaluate stress issues Epi- & Norepinephrine turnover

stimulation

Oxidative Damage and Antioxidant Markers

No Abnormality Found

Detoxification Indicators

Hepatic Phase I and II detox Glucarate High N-acetylcysteine, Hepatic support

Glutathione demand a-Hydroxybutyrate High N-acetylcysteine, other sulfur

containing amino acids

Pyroglutamate Very High N-acetylcysteine, other sulfur Glutathione wasting

containing amino acids

Bacterial - General

New York Clinical Lab PFI #4578 Florida Clinical Lab Lic. #800008124 Laboratory Director: Robert M. David, PhD



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Yeast Overgrowth



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No Abnormality Found

L. acidophilus / general bacteria

No Abnormality Found

Clostridial Species

No Abnormality Found

Yeast/Fungal

D-Arabinitol High Antifungals



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

Results mcg/mg creatinine

Quintile Ranking
1st 2nd 3rd

4th 5th

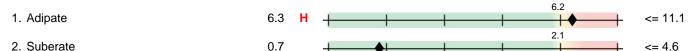
95% Reference Range

Nutrient Markers

Fatty Acid Metabolism

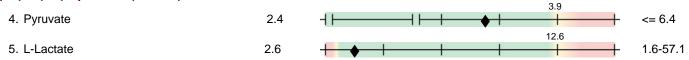
Ranges are for ages 13 and over

(Carnitine & B2)



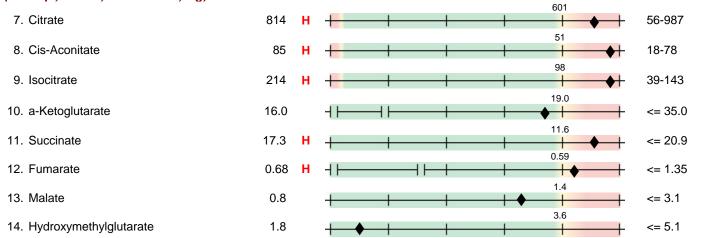
Carbohydrate Metabolism

(B1, B3, Cr, Lipoic Acid, CoQ10)



Energy Production (Citric Acid Cycle)

(B comp., CoQ10, Amino acids, Mg)



Georgia Lab Lic. Code #067-007 CLIA ID# 11D0255349 New York Clinical Lab PFI #4578 Florida Clinical Lab Lic. #800008124 Laboratory Director: Robert M. David, PhD ova Diagnostics-Metametrix, Inc. 3425 Corporate Way, Duluth, GA 30096

 $Testing\ Performed\ by\ Genova\ Diagnostics-Metametrix,\ Inc.\ 3425\ Corporate\ Way,\ Duluth,\ GA\ 30096$



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Results mcg/mg creatinine

Quintile Ranking 1st 2nd 3rd 4th 95% Reference Range

5th

3.9

Laboratory Director: Robert M. David, PhD

0.25

B-Complex Vitamin Markers

(B1, B2, B3, B5, B6, Biotin)

15.	a-Ketoisovalerate	0.16

16. a-Ketoisocaproate 0.12

17. a-Keto-ß-methylvalerate 0.23

18. Xanthurenate 0.21

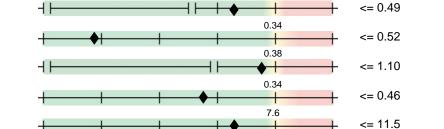
19. ß-Hydroxyisovalerate 6.0

Methylation Cofactor Markers

(B12, Folate)

20. Methylmalonate 0.7

21. Formiminoglutamate 0.1



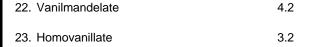


1.2 <= 2.2

Cell Regulation Markers

Neurotransmitter Metabolism Markers

(Tyrosine, Tryptophan, B6, antioxidants)



24. 5-Hydroxyindoleacetate 2.1



26. Quinolinate 1.8

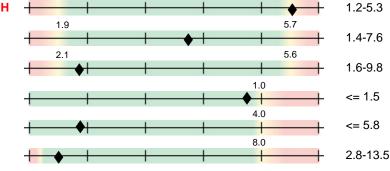
27. Picolinate 2.9



28. p-Hydroxyphenyllactate 0.31

29. 8-Hydroxy-2-deoxyguanosine 1.7 (Units for 8-hydroxy-2-deoxyguanosine are ng/mg creatinine)

1.6







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Results

Quintile Ranking

95% Reference
Ranges are for ages 13 and over

mcg/mg creatinine

1st 2nd 3rd 4th 5th

Range

Toxicants and Detoxification

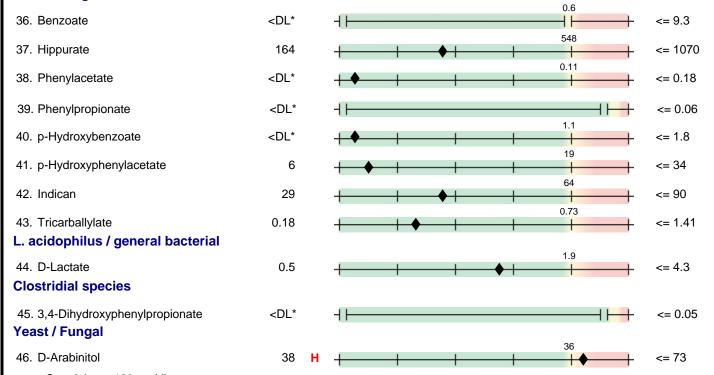
Detoxification Indicators

(Arg, NAC, Met, Mg, antioxidants)

			0.084
30. 2-Methylhippurate	0.083	+ + + +	<= 0.192
			0.69
31. Orotate	0.27	+ +++++++++++++++++++++++++++++++++++++	<= 1.01
			6.3
32. Glucarate	10.1	+ + + + + + + + + + + + + + + + + + + +	<= 10.7
			0.3
33. a-Hydroxybutyrate	0.35 H	1 -	<= 0.9
			59
34. Pyroglutamate	115 I	+	28-88
		958	2347
35. Sulfate	958		690-2988
			1 1 222

Compounds of Bacterial or Yeast/Fungal Origin

Bacterial - general



Creatinine = 190 mg/dL

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^{* &}lt;DL = less than detection limit

^{** &}gt;LIN = greater than linearity limit



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Supplement Recommendation Summary

With knowledge of a patient's full medical history and concerns, the Organix Comprehensive Profile laboratory results may be used to help healthcare professionals create an individually optimized nutritional support program. Based strictly on the results from this test, the summary table below shows estimates of nutrient doses that may help to normalize nutrient-dependent metabolic functions.

Customized Vitamin and Mineral Formulation

Nutrients listed in this section are normally contained in a multi-vitamin preparation. "Base" amounts may be used to ensure health even when no abnormalities are found.

Daily Amounts

Customized preparations of the multi-vitamin/mineral formula shown below may be produced by compounding pharmacies.

	Dally F	Amounts
Nutrient	Base	Units Added
Vitamin A*	2500 IU	
B-Carotene*	5500 IU	
Vitamin C	250 mg	1000 mg
Vitamin D*	400 IU	
Vitamin E	100 IU	300 IU
Vitamin K*	100 mcg	
Thiamin (B1)	5 mg	
Riboflavin (B2)	5 mg	10 mg
Niacin (B3)	25 mg	
Pyridoxine (B6)	15 mg	
Folic Acid (or 5-Methyl-THF)	400 mcg	
Vitamin B12	50 mcg	
Biotin	100 mcg	
Pantothenic Acid (B5)	25 mg	
Calcium citrate	500 mg	
lodine*	75 mcg	
Magnesium	250 mg	
Zinc*	15 mg	
Selenium	100 mcg	100 mcg
Copper	1 mg	
Manganese*	5 mg	
Chromium	200 mcg	
Molybdenum*	25 mcg	
Boron*	1 mg	

^{*} Nutrients with an asterisk are not modified based on the Organix test results.

MM02

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Other Items Indicated for individual supplementation

Various conditionally essential nutrients and other potentially beneficial interventions appear in this section only if relevant abnormalities are present. These ingredients are not included in the customized vitamin formula on the previous page.

Nutrient	Amount Low	
Potential to benefit from probiotics		
Antifungals	As needed	
Arginine	500 mg	
Carnitine	400 mg	
Coenzyme Q10	60 mg	
Glycine	4000 mg	
N-Acetylcysteine	750 mg	
Need for other antioxidants	Moderate	