



Ordering Physician:

Robert David, PhD

**1234 Main St.
Anywhere, GA 30096**

Accession #: **A1204040010**
Order #: G1234567
Reference #:
Patient: **Sample Report**
Date of Birth: 02/05/1962
Age: 50
Sex: Female
Reprinted: 07/09/2013
Comment:

Date Collected: 04/03/2012
Date Received: 04/04/2012
Date of Report: 04/04/2012
Telephone: 7704464583
Fax: 7704412237



0291 Organix® Basic Profile - Urine

Methodology: LC/Tandem Mass Spectroscopy, Colorimetric

Organix Interpretation

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

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Summary of Abnormal Findings

	<u>Findings</u>	<u>Intervention Options</u>	<u>Common Metabolic Association</u>
Fatty Acid Metabolism			
Suberate	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	Very High	CoQ10	ATP production
Fumarate	High	CoQ10	ATP production
Malate	High	CoQ10	ATP production
B-Complex Vitamin Markers			
Xanthurenate	Very High	B6	Impaired Tryptophan metabolism
Methylation Cofactor Markers			
Methylmalonate	High	B12	Adenosylcobalamin insufficiency
Neurotransmitter Metabolism Markers			
Homovanillate	Very Low	Tyrosine	Dopamine turnover inhibition
Quinolinate	High	Magnesium, Immune support	Receptor agonist
Detoxification Indicators			
2-Methylhippurate	High	Glycine	Xylene exposure
Glucarate	High	N-acetylcysteine, Hepatic support	Hepatic Phase I and II detox

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Ranges are for ages 13 and over

Results
mcg/mg creatinine



95% Reference Range

Nutrient Markers

Fatty Acid Metabolism

(Carnitine & B2)

1. Adipate	6.1		6.2	<= 11.1
2. Suberate	2.3	H	2.1	<= 4.6
3. Ethylmalonate	2.5		3.6	<= 6.3

Carbohydrate Metabolism

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

4. Pyruvate	3.5		3.9	<= 6.4
5. L-Lactate	2.2		12.6	1.6-57.1
6. β-Hydroxybutyrate	<DL*		2.1	<= 9.9

Energy Production (Citric Acid Cycle)

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

7. Citrate	710	H	601	56-987
8. Cis-Aconitate	88	H	51	18-78
9. Isocitrate	175	H	98	39-143
10. α-Ketoglutarate	8.8		19.0	<= 35.0
11. Succinate	21.0	H	11.6	<= 20.9
12. Fumarate	0.75	H	0.59	<= 1.35
13. Malate	1.5	H	1.4	<= 3.1
14. Hydroxymethylglutarate	3.0		3.6	<= 5.1



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Nutrient Markers

B-Complex Vitamin Markers

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

Marker	Result	Quintile Ranking	95% Reference Range
15. a-Ketoisovalerate	0.22	4th	<= 0.49
16. a-Ketocaproate	0.13	2nd	<= 0.52
17. a-Keto-β-methylvalerate	0.30	4th	<= 1.10
18. Xanthurenate	0.91 H	5th	<= 0.46
19. β-Hydroxyisovalerate	7.3	4th	<= 11.5

Methylation Cofactor Markers

(B12, Folate)

20. Methylmalonate	1.8 H	4th	<= 2.3
21. Formiminoglutamate	0.1	1st	<= 2.2

Cell Regulation Markers

Neurotransmitter Metabolism Markers

(Tyrosine, Tryptophan, B6, antioxidants)

22. Vanilmandelate	3.5	4th	1.2-5.3
23. Homovanillate	0.8 L	1st	1.4-7.6
24. 5-Hydroxyindoleacetate	2.3	2nd	1.6-9.8
25. Kynurenate	0.9	4th	<= 1.5
26. Quinolinatate	4.9 H	5th	<= 5.8
27. Picolinate	3.2	1st	2.8-13.5



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Toxicants and Detoxification

Detoxification Indicators

(Arg, NAC, Met, Mg, antioxidants)

Indicator	Result	Quintile Ranking	95% Reference Range
28. 2-Methylhippurate	0.088 H	0.084	<= 0.192
29. Orotate	0.55	0.69	<= 1.01
30. Glucarate	10.1 H	6.3	<= 10.7
31. a-Hydroxybutyrate	0.2	0.3	<= 0.9
32. Pyroglutamate	41	59	28-88

Creatinine = 175 mg/dL

* <DL = less than detection limit

** >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.

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

Nutrient	Daily Amounts	
	Base	Units Added
Vitamin A*	2500 IU	
B-Carotene*	5500 IU	
Vitamin C	250 mg	2000 mg
Vitamin D*	400 IU	
Vitamin E	100 IU	400 IU
Vitamin K*	100 mcg	
Thiamin (B1)	5 mg	
Riboflavin (B2)	5 mg	10 mg
Niacin (B3)	25 mg	
Pyridoxine (B6)	15 mg	80 mg
Folic Acid (or 5-Methyl-THF)	400 mcg	
Vitamin B12	50 mcg	800 mcg
Biotin	100 mcg	
Pantothenic Acid (B5)	25 mg	
Calcium citrate	500 mg	
Iodine*	75 mcg	
Magnesium	250 mg	200 mg
Zinc*	15 mg	
Selenium	100 mcg	200 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.

MM03



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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
Arginine	500 mg
Carnitine	400 mg
Coenzyme Q10	120 mg
Glycine	3000 mg
Need for other antioxidants	Moderate
Tyrosine	500 mg