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Ordering Physician:
NourishBalanceThrive
Jamie Busch, MD

776 59th St
Apt 1
Oakland, CA 94609-1463

Accession #: A1405290411
Order #: H3291279
Reference #:
Patient:
Date of Birth: 05/27/1976
Age: 38
Sex: Female
Reprinted:
Comment:

Date Collected: 05/26/2014
Date Received: 05/29/2014
Date of Report: 06/09/2014
Telephone: 4127263005
Fax:



0091 Organix® Comprehensive Profile - Urine

Methodology: LC/Tandem Mass Spectroscopy, Colorimetric

Organix Interpretation

Interpretive Guides are downloadable at: www.gdx.net/tests/interpretive-guides



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Summary of Abnormal Findings

	<u>Findings</u>	<u>Intervention Options</u>	<u>Common Metabolic Association</u>
Fatty Acid Metabolism			
Adipate	Very High	Carnitine, B2	Fatty acid oxidation
Suberate	Very High	Carnitine, B2	Fatty acid oxidation
Carbohydrate Metabolism			
L-Lactate	High	CoQ10, Lipoic Acid, B1, B2, B3, B5	Glucose oxidation
β-Hydroxybutyrate	Very High	Cr, V, Lipoic Acid, Mg, Mn	Ketosis
Energy Production Markers			
Cis-Aconitate	High	Arginine	Renal ammonia loading
Succinate	High	CoQ10	ATP production
Malate	High	CoQ10	ATP production
Hydroxymethylglutarate	Very High	CoQ10	HMG-CoA reductase inhibition
B-Complex Vitamin Markers			
No Abnormality Found			
Methylation Cofactor Markers			
No Abnormality Found			
Neurotransmitter Metabolism Markers			
Homovanillate	High	Evaluate stress issues	Dopamine turnover stimulation
Kynurenate	High	B6	Receptor antagonist
Quinolate	High	Magnesium, Immune support	Receptor agonist
Picolinate	High	Add n-3 PUFA, limit protein intake	Inflammatory cytokine stimulation
Oxidative Damage and Antioxidant Markers			
p-Hydroxyphenyllactate	High	Vitamin C, Vitamin E	Increased cell turn over

Detoxification Indicators



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2-Methylhippurate	High	Glycine	Xylene exposure
Glucarate	Very High	N-acetylcysteine, Hepatic support	Hepatic Phase I and II detox

Bacterial - General

Benzoate	Very High	Glycine	Hepatic Phase II conjugation
Hippurate	Very High	Glycine	Hepatic Phase II conjugation
p-Hydroxybenzoate	Very High	Probiotics	Intestinal Bacterial Overgrowth
p-Hydroxyphenylacetate	High	Probiotics	Intestinal Bacterial Overgrowth
Indican	High	Probiotics	Intestinal Bacterial Overgrowth
Tricarballylate	High	Probiotics	Intestinal Bacterial Overgrowth

L. acidophilus / general bacteria

D-Lactate	High	Non D-lactate-forming Probiotics	Intestinal bacterial overgrowth (L. acidophilus)
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Clostridial Species

No Abnormality Found

Yeast/Fungal

No Abnormality Found



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Ranges are for ages 13 and over



Nutrient Markers

Fatty Acid Metabolism

(Carnitine & B2)



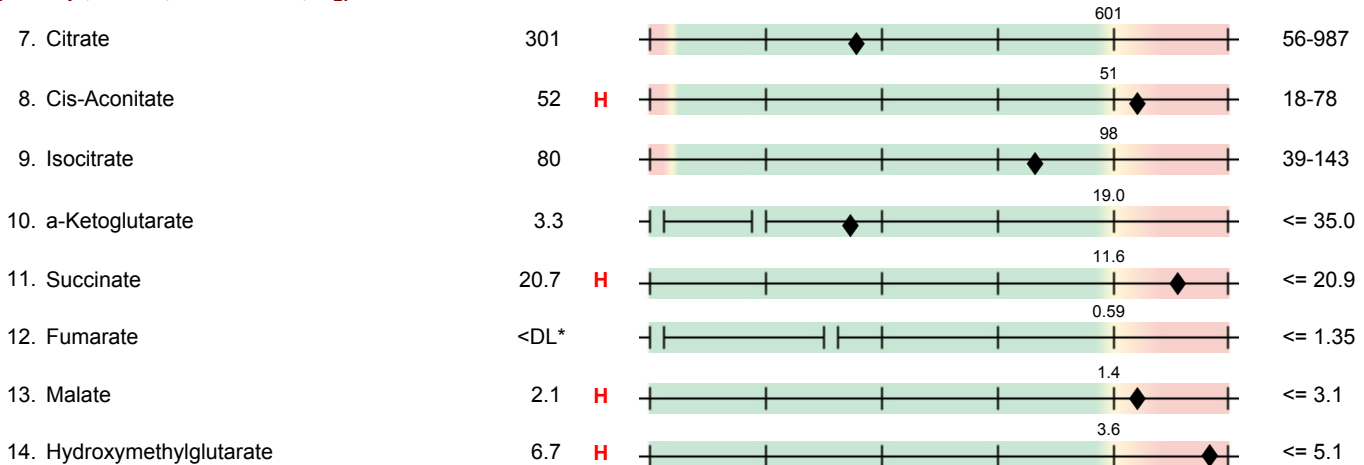
Carbohydrate Metabolism

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



Energy Production (Citric Acid Cycle)

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





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B-Complex Vitamin Markers

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

	Results mcg/mg creatinine	Quintile Ranking 1st 2nd 3rd 4th 5th	95% Reference Range
15. a-Ketoisovalerate	<DL*	0.25	<= 0.49
16. a-Ketoisocaproate	<DL*	0.34	<= 0.52
17. a-Keto-β-methylvalerate	<DL*	0.38	<= 1.10
18. Xanthurenate	<DL*	0.34	<= 0.46
19. β-Hydroxyisovalerate	6.7	7.6	<= 11.5

Methylation Cofactor Markers

(B12, Folate)

20. Methylmalonate	0.7	1.7	<= 2.3
21. Formiminoglutamate	0.5	1.2	<= 2.2

Cell Regulation Markers

Neurotransmitter Metabolism Markers

(Tyrosine, Tryptophan, B6, antioxidants)

22. Vanilmandelate	3.8	1.6 3.9	1.2-5.3
23. Homovanillate	7.4 H	1.9 5.7	1.4-7.6
24. 5-Hydroxyindoleacetate	4.3	2.1 5.6	1.6-9.8
25. Kynurenate	1.3 H	1.0	<= 1.5
26. Quinolate	5.8 H	4.0	<= 5.8
27. Picolinate	8.5 H	8.0	2.8-13.5

Oxidative Damage and Antioxidant Markers

(Vitamin C and other antioxidants)

28. p-Hydroxyphenyllactate	0.56 H	0.39	<= 0.66
29. 8-Hydroxy-2-deoxyguanosine	2.9	5.3	<= 7.6

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



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Results **Quintile Ranking** **95% Reference Range**
mcg/mg creatinine 1st 2nd 3rd 4th 5th

Toxicants and Detoxification

Detoxification Indicators

(Arg, NAC, Met, Mg, antioxidants)

Item	Results	Quintile Ranking	95% Reference Range
30. 2-Methylhippurate	0.101 H	0.084	<= 0.192
31. Orotate	0.62	0.69	<= 1.01
32. Glucarate	25.1 H	6.3	<= 10.7
33. a-Hydroxybutyrate	<DL*	0.3	<= 0.9
34. Pyroglutamate	41	59	28-88
35. Sulfate	2083	958 2347	690-2988

Compounds of Bacterial or Yeast/Fungal Origin

Bacterial - general

Item	Results	Quintile Ranking	95% Reference Range
36. Benzoate	11.9 H	0.6	<= 9.3
37. Hippurate	1434 H	548	<= 1070
38. Phenylacetate	<DL*	0.11	<= 0.18
39. Phenylpropionate	<DL*		<= 0.06
40. p-Hydroxybenzoate	10.7 H	1.1	<= 1.8
41. p-Hydroxyphenylacetate	29 H	19	<= 34
42. Indican	69 H	64	<= 90
43. Tricarballic acid	1.39 H	0.73	<= 1.41

L. acidophilus / general bacterial

44. D-Lactate	2.0 H	1.9	<= 4.3
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Clostridial species

45. 3,4-Dihydroxyphenylpropionate	<DL*		<= 0.05
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Yeast / Fungal

46. D-Arabinitol	18	36	<= 73
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Creatinine = 55 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.

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	5 mg
Riboflavin (B2)	5 mg	10 mg
Niacin (B3)	25 mg	20 mg
Pyridoxine (B6)	15 mg	60 mg
Folic Acid (or 5-Methyl-THF)	400 mcg	
Vitamin B12	50 mcg	
Biotin	100 mcg	
Pantothenic Acid (B5)	25 mg	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	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
L. acidophilus strains contraindicated	
Arginine	500 mg
Carnitine	800 mg
Coenzyme Q10	60 mg
Glycine	4000 mg
Lipoic Acid	100 mg
Need for other antioxidants	Moderate
Vanadium	200 mcg