

Ordering Physician:

Metametrix Staff & Family

3425 Corporate Way Duluth, GA 30096

Accession Number: Reference Number: Patient: Age: 40 Date of Birth: Date Collected: Date Received: Report Date: Telephone: Fax: Reprinted: Comment:

A0808210026

Sample Report Sex: Male 02/05/1968 8/21/08 8/21/08 8/21/08 (770) 446-5483 (678) 638-2821

<mark>1 Organix™ Comprehensiv</mark>	e Profile		Methodology: LC/Tandem Mass Spectroscopy, Colorimetri
Summary of abnormal resu	ults:		
	Findings	Intervention Options	Common Metabolic Association
Fatty Acid Metabolism			
No Abnormality Found			
Carbohydrate Metabolism			
No Abnormality Found			
Energy Production Markers			
Cis-Aconitate	Very Low	Free-form amino acids	Amino Acid insufficiency
B-Complex Vitamin Markers			
No Abnormality Found			
Methylation Cofactor Markers			
No Abnormality Found			
Neurotransmitter Metabolism M	arkers		
Picolinate	Very Low	Limit omega-3 PUFA, add protein	Suppressed inflammatory responses
Oxidative Damage and Antioxid	ant Markers		
No Abnormality Found			
Detoxification Indicators			
a-Hydroxybutyrate	High	N-acetylcysteine, Glutathione, other sulfur containing a. a.	Glutathione demand
Sulfate	Very Low	N-acetylcysteine, Glutathione, Lipoic acid	Chronic low total body glutathione status, detox and antioxidant status
Bacterial - General			
Benzoate	High	Glycine	Hepatic Phase II conjugation
L. acidophilus / general bacteria			
No Abnormality Found			
Clostridial Species			
No Abnormality Found	۱۸/۱۸	w aboutvo	hurbody pot
Yeast/Fungal	VVVV	w.aboutyt	วนเม่นนั้นเคย

Yeast/Fungal

No Abnormality Found

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770.446.5483 Fax:770.441.2237

Ordered By: Robert David PhD Accession Number: Patient: Report Date: Reprinted: Comment:

A0808210026 Sample Report 8/21/08

0091 Organix™ Comprehensive Pro	ofile	Methodology: LC/Tandem Mass Spectroscopy, Colorimetric					
This report is not intended for the diagnosis of neonatal inborn errors of metabolism. Ranges are for ages 13 and over		Percentile Ranking by Quintile1st2nd3rd4th5th20%40%60%80%	95% Reference				
			Interval				
Fatty Acid Metabolism	Results						
(Carnitine & B2)	ug/mg creatinine						
1 Adipate	4.6	6.0	<= 10.6				
2 Suberate	1.2	1.9	<= 3.4				
3 Ethylmalonate	<dl*< td=""><td>2.0</td><td><= 4.4</td></dl*<>	2.0	<= 4.4				
Carbohydrate Metabolism (B1, B3, Cr, Lipoic Acid, CoQ10)							
4 Pyruvate	<dl*< td=""><td>3.3</td><td><= 4.9</td></dl*<>	3.3	<= 4.9				
5 L-Lactate	7		3 - 47				
6 β-Hydroxybutyrate	<dl*< td=""><td>2.4</td><td><= 5.6</td></dl*<>	2.4	<= 5.6				
Energy Production (Citric Acid Cycle)							
7 Citrate	28	431	9 - 670				
8 Cis-Aconitate	<dl* l<="" td=""><td>46</td><td>1 - 74</td></dl*>	46	1 - 74				
9 Isocitrate	4	73	1 - 110				
10 a-Ketoglutarate	0.5	21.0 - ↓ - ↓ + ↓ + ↓ + ↓ + ↓ + ↓ + ↓ + ↓ + ↓ + ↓	<= 33.3				
11 Succinate	<dl*< td=""><td></td><td><= 27.4</td></dl*<>		<= 27.4				
12 Fumarate	<dl*< td=""><td></td><td><= 1.59</td></dl*<>		<= 1.59				
13 Malate	<dl*< td=""><td></td><td><= 2.5</td></dl*<>		<= 2.5				
14 Hydroxymethylglutarate	<dl*< td=""><td>4.1</td><td><= 5.2</td></dl*<>	4.1	<= 5.2				



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Methodology: LC/Tandem Mass Spectroscopy, Colorimetric

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Ranges are for ages 13 and over		20%	40% 6	0% 80%	Interval		
B-Complex Vitamin Markers	Results						
(B1, B2, B3, B5, B6, Biotin)	ug/mg creatinine						
15 a-Ketoisovalerate	<dl*< td=""><td>-1 </td><td></td><td>0.32</td><td><= 0.56</td></dl*<>	-1		0.32	<= 0.56		
16 a-Ketoisocaproate	0.13	+ +		0.38	<= 0.63		
17 a-Keto-β-Methylvalerate	0.29		♦	0.69	<= 1.60		
18 Xanthurenate	0.44	+ +	+ +	0.62	<= 0.93		
19 β-Hydroxyisovalerate	0.6	+ +		4.7	<= 7.9		
Methylation Cofactor Markers (B12, Folate)							
20 Methylmalonate	0.3	+ + +		1.3	<= 2.0		
21 Formiminoglutamate	1.18			1.67	<= 2.94		
CELL REGULATION MARKERS							
Neurotransmitter Metabolism Marke (Tyrosine, Tryptophan, B6, antioxidants)	rs						
22 Vanilmandelate	3.3	1.6		4.2	1.0 - 5.7		
23 Homovanillate	3.3	1.6	♦	6.8	0.8 - 13.0		
24 5-Hydroxyindoleacetate	3.3	1.6		8.1	0.9 - 50.8		
25 Kynurenate	1.3		+	1.9	<= 2.7		
26 Quinolinate	1.0	+		3.5	<= 5.8		
27 Picolinate	1.5 L	 ♦		6.4	1.8 - 11.2		
Oxidative Damage and Antioxidant M	larkers						
(Vitamin C and other antioxidants)							
28 p-Hydroxyphenyllactate	0.34	+ +	♦	0.90	<= 1.80		
29 8-Hydroxy-2-deoxyguanosine *	* 1.4	+ + +		5.3	<= 7.6		

** Units for 8-Hydroxy-2-deoxyguanosine are ng/mg creatinine



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This repo inborn er	ort is not intended for the diagnosis of neonata rors of metabolism.	al			Per 1st	cent 2n	i le Ranki d 3rd	ng by Qui 4th	ntile 5th		95% Reference
Ranges	are for ages 13 and over				20	%	40%	60%	80%		Interval
(тох	CANTS AND DETOXIFICATION										
Deto	xification Indicators	Result	S								
(Arg,	NAC, Met, Mg, antioxidants)	ug/mg	creatinine						0.000		
30	2-Methylhippurate	<dl*< td=""><td></td><td>+</td><td></td><td></td><td></td><td></td><td>0.039</td><td>-</td><td><= 0.073</td></dl*<>		+					0.039	-	<= 0.073
31	Orotate	<dl*< td=""><td></td><td>۰ŀ</td><td></td><td></td><td></td><td>-</td><td>0.44</td><td></td><td><= 0.79</td></dl*<>		۰ŀ				-	0.44		<= 0.79
32	Glucarate	0.2		+	• +			+	7.4		<= 14.9
33	a-Hydroxybutyrate	0.7	н	-1 -					0.4	+	<= 1.8
34	Pyroglutamate	17		+	• +		ł		51	+	<= 85
35	Sulfate	98	L	+	986		-	-	2,353		762 - 2,778
сом	POUNDS OF BACTERIAL OR YEAS	ST/FUNGA									
Bacte	erial - general								0.0		
36	Benzoate	2.2	н	- -				<u> </u>			<= 4.4
37	Hippurate	193		+			♦	-	631	+	<= 1,162
38	Phenylacetate	<dl*< td=""><td></td><td>- -</td><td></td><td></td><td></td><td></td><td>0.01</td><td></td><td><= 0.01</td></dl*<>		- -					0.01		<= 0.01
39	Phenylpropionate	<dl*< td=""><td></td><td>- -</td><td></td><td></td><td></td><td></td><td>0.4</td><td></td><td><= 0.4</td></dl*<>		- -					0.4		<= 0.4
40	p-Hydroxybenzoate	0.5		+	+			•	1.0	-	<= 2.0
41	p-Hydroxyphenylacetate	6		+	+				22	-	<= 40
42	Indican	34		+	+		+ +		68	-	<= 109
43	Tricarballylate	<dl*< td=""><td></td><td>Ηŀ</td><td></td><td></td><td></td><td></td><td>0.81</td><td>-</td><td><= 1.89</td></dl*<>		Ηŀ					0.81	-	<= 1.89
L. aci	dophilus / general bacterial								2.4		
44	D-Lactate	0.4		+	++				2.1	-	<= 6.5
Clost	ridial species								0.10		
45	3,4-Dihydroxyphenylpropionate	<dl*< td=""><td></td><td>- -</td><td>2 2</td><td></td><td></td><td></td><td></td><td></td><td><= 0.12</td></dl*<>		- -	2 2						<= 0.12
Yeas	t / Fungal								32		
46	D-Arabinitol	15		+	+		-			-	<= 59

Creatinine = 142 mg/dl

* < DL = less than detection limit

Georgia Lab Lic. Code #067-007 CLIA ID# 11D0255349



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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. All amounts are adult doses that should be adjusted for children according to body weight and indication of need.

Customized Vitamin and Mineral Formulation

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

Customized preparations of the multi-vitamin/mineral formula shown below may be produced by compounding pharmacies. If such a product is made according to these specifications each dose should be thoroughly stirred into a few ounces of water or diluted fruit juice to allow bubbles to form and avoid stomach bloating effects.

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

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

MM01



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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.

Glycine	3000 mg
N-Acetylcysteine	400 mg

• These guidelines are intended as a starting point for the clinician who requested the test and are based only on the laboratory results included in this report. Final recommendations should be implemented by the clinician with consideration of medical history and current clinical observations.

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