



Ordering Physician:  
255252 - 279741  
Med for Life  
Via Borin 48  
31100 Treviso

Accession Number: **A0712170056**  
Reference Number:  
Patient: Daniele Scarpa  
Age: 43 Sex: F  
Date of Birth: 03/01/1964  
Date Collected: 12/12/07  
Date Received: 12/17/07  
Report Date: 12/26/07  
Telephone:  
Fax:  
Reprinted:  
Comment:

**0091 Organix™ Comprehensive Profile**

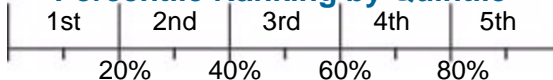
**Summary of abnormal results:**

	<u>Findings</u>	<u>Intervention Options</u>	<u>Common Metabolic Association</u>
<b><u>Nutrient Markers</u></b>			
<b>Fatty Acid Metabolism</b>			
	No Abnormality Found		
<b>Carbohydrate Metabolism</b>			
	No Abnormality Found		
<b>Energy Production Markers</b>			
	No Abnormality Found		
<b>B-Complex Vitamin Markers</b>			
	No Abnormality Found		
<b>Methylation Cofactor Markers</b>			
	No Abnormality Found		
<b><u>Cell Regulation Markers</u></b>			
<b>Neurotransmitter Metabolism Markers</b>			
	No Abnormality Found		
<b>Oxidative Damage and Antioxidant Markers</b>			
	No Abnormality Found		
<b><u>Toxicants and Detoxification</u></b>			
<b>Detoxification Indicators</b>			
	No Abnormality Found		
<b><u>Compounds of Bacterial or Yeast/Fungal Origin</u></b>			
<b>Bacterial - General</b>			
	No Abnormality Found		
<b>L. acidophilus / general bacteria</b>			
	No Abnormality Found		
<b>Clostridial Species</b>			
	No Abnormality Found		
<b>Yeast/Fungal</b>			
	No Abnormality Found		

**0091 Organix™ Comprehensive Profile**

Methodology: LC/Tandem Mass Spectroscopy, Colorimetric

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

**Percentile Ranking by Quintile**

**95%  
Reference  
Interval**

Ranges are for ages 13 and over

**NUTRIENT MARKERS**
**Fatty Acid Metabolism  
(Carnitine & B2)**

 Results  
 ug/mg creatinine

Item	Result	Percentile	Reference Interval
1 Adipate	1.1	5.7	<= 10.3
2 Suberate	0.3	1.8	<= 3.3
3 Ethylmalonate	2.5	5.5	<= 8.5

**Carbohydrate Metabolism  
(B1, B3, Cr, Lipoic Acid, CoQ10)**

Item	Result	Percentile	Reference Interval
4 Pyruvate	1.4	4.1	<= 7.1
5 Lactate	3.40	19.4	2.5 - 57.0
6 β-Hydroxybutyrate	0.2	2.8	<= 12.8

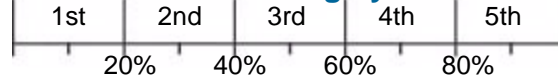
**Energy Production (Citric Acid Cycle)  
(B comp., Q10, Amino acids, Mg)**

Item	Result	Percentile	Reference Interval
7 Citrate	290	948	127 - 1,550
8 Cis-Aconitate	29	76	29 - 122
9 Isocitrate	44	92	36 - 130
10 α-Ketoglutarate	11.2	27.8	2.6 - 60.0
11 Succinate	2.1	12.3	1.1 - 34.0
12 Fumarate	0.11	0.71	<= 1.40
13 Malate	0.5	2.3	<= 4.3
14 Hydroxymethylglutarate	3.2	6.8	<= 9.7

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**B-Complex Vitamin Markers  
(B1, B2, B3, B5, B6, Biotin)**

 Results  
 ug/mg creatinine

Item	Result	Percentile	95% Reference Interval
15 a-Ketoisovalerate	0.28	~35%	<= 0.94
16 a-Ketoisocaproate	0.17	~25%	<= 0.58
17 a-Keto-β-Methylvalerate	0.6	~25%	<= 2.7
18 Xanthurenate	0.6	~75%	<= 1.2
19 β-Hydroxyisovalerate	2.7	~10%	<= 15.3

**Methylation Cofactor Markers  
(B12, Folate)**

20 Methylmalonate	1.5	~55%	<= 3.4
21 Formiminoglutamate	1.12	~85%	<= 2.28

**CELL REGULATION MARKERS**
**Neurotransmitter Metabolism Markers  
(Tyrosine, Tryptophan, B6, antioxidants)**

22 Vanilmandelate	2.0	~45%	0.4 - 5.3
23 Homovanillate	1.7	~15%	0.7 - 17.0
24 5-Hydroxyindoleacetate	5.9	~85%	0.7 - 26.0
25 Kynurenate	1.3	~75%	<= 2.5
26 Quinolate	2.4	~10%	<= 16.5

**Oxidative Damage and Antioxidant Markers  
(Vitamin C and other antioxidants)**

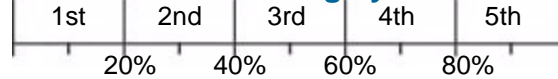
27 p-Hydroxyphenyllactate	0.4	~55%	<= 1.4
28 8-Hydroxy-2-deoxyguanosine *	1.9	~25%	<= 7.6

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

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**TOXICANTS AND DETOXIFICATION**
**Detoxification Indicators**  
 (Arg, NAC, Met, Mg and antioxidants)

 Results  
 ug/mg creatinine

Code	Substance	Result	Percentile	Reference Interval
29	2-Methylhippurate	0.013	~15%	<= 0.106
30	Orotate	0.4	~15%	<= 1.6
31	Glucarate	3.2	~45%	<= 11.9
32	a-Hydroxybutyrate	0.5	~35%	<= 2.2
33	Pyroglutamate	15	~25%	< 72
34	Sulfate	166	~25%	89 - 432

**COMPOUNDS OF BACTERIAL OR YEAST/FUNGAL ORIGIN**
**Bacterial - general**

35	Benzoate	< 1	~15%	<= 8.2
36	Hippurate	373	~75%	<= 1,099
37	Phenylacetate	< 0.06	~15%	<= 0.20
38	Phenylpropionate	< 0.5	~15%	<= 0.5
39	p-Hydroxybenzoate	0.3	~15%	<= 2.8
40	p-Hydroxyphenylacetate	10	~45%	<= 35
41	Indican	18	~15%	<= 124
42	Tricarballylate	1.0	~75%	<= 3.6

**L. acidophilus / general bacterial**

43	D-Lactate	< 0.4	~15%	<= 11.0
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**Clostridial species**

44	3,4-Dihydroxyphenylpropionate	< 0.16	~15%	<= 0.40
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**Yeast / Fungal**

45	D-Arabinitol	14	~15%	<= 59
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Creatinine =258 mg/dl



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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.

Nutrient	Daily Amounts	
	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	
Iodine*	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 Basic test

MM01