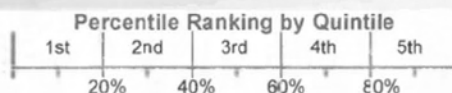


0091 Organix™ Comprehensive Profile

Methodology: LC Tandem Mass Spectroscopy, Colorimetric

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



95%
Reference
Interval

Ranges are for ages 13 and over

NUTRIENT MARKERS

Fatty Acid Metabolism (Camitine & B2)		Results ug/mg creatinine		
1	Adipate	3.4		5.2 <= 8.3
2	Suberate	0.5		1.7 <= 3.2
3	Ethylmalonate	1.4		3.6 <= 6.3
Carbohydrate Metabolism (B1, B3, Cr, Lipoic Acid, CoQ10)				
4	Pyruvate	<DL*		3.9 <= 6.4
5	L-Lactate	3		14 3 - 46
6	β-Hydroxybutyrate	<DL*		2.1 <= 9.9
Energy Production (Citric Acid Cycle) (B comp., CoQ10, Amino acids, Mg)				
7	Citrate	98		601 56 - 987
8	Cis-Aconitate	18		51 18 - 78
9	Isocitrate	43		98 39 - 143
10	α-Ketoglutarate	17.5		19.0 <= 35.0
11	Succinate	5.1		11.6 <= 20.9
12	Fumarate	<DL*		0.59 <= 1.35
13	Malate	<DL*		1.4 <= 3.1
14	Hydroxymethylglutarate	1.6		3.6 <= 5.1

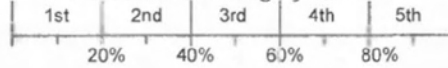
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Percentile Ranking by Quintile



95%
Reference
Interval

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

Results
ug/mg creatinine

15	a-Ketoisovalerate	<DL*	0.25	<= 0.49
16	a-Ketoisocaproate	0.28	0.34	<= 0.52
17	a-Keto-β-Methylvalerate	<DL*	0.38	<= 1.10
18	Xanthurenate	0.28	0.47	<= 0.74
19	β-Hydroxyisovalerate	3.6	7.6	<= 11.5

Methylation Cofactor Markers
(B12, Folate)

20	Methylmalonate	0.4	1.7	<= 2.3
21	Formiminoglutamate	0.3	1.2	<= 2.2

CELL REGULATION MARKERS

Neurotransmitter Metabolism Markers
(Tyrosine, Tryptophan, B6, antioxidants)

22	Vanilmandelate	1.7 L	1.8 3.9	1.3 - 4.9
23	Homovanillate	2.1	2.1 6.3	1.6 - 10.9
24	5-Hydroxyindoleacetate	1.9 L	2.1 5.6	1.6 - 9.8
25	Kynurenate	0.9	1.9	<= 2.7
26	Quinolinate	1.7	4.0	<= 5.8
27	Picolinate	2.8	8.0	2.8 - 13.5

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

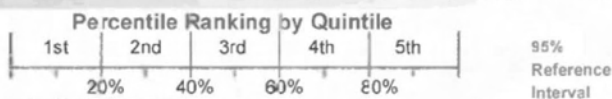
28	p-Hydroxyphenyllactate	0.12	0.79	<= 1.45
29	8-Hydroxy-2-deoxyguanosine	** 4.1	5.3	<= 7.6

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

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TOXICANTS AND DETOXIFICATION

Detoxification Indicators (Arg, NAC, Met, Mg, antioxidants)	Results ug/mg creatinine		
30 2-Methylhippurate	0.009	0.084	<= 0.192
31 Orotate	0.16	0.69	<= 1.01
32 Glucarate	2.3	6.3	<= 10.7
33 a-Hydroxybutyrate	<DL*	0.3	<= 0.9
34 Pyroglutamate	20 L	59	28 - 88
35 Sulfate	1,525	958 - 2,347	690 - 2,988

COMPOUNDS OF BACTERIAL OR YEAST/FUNGAL ORIGIN

Bacterial - general			
36 Benzoate	<DL*	0.6	<= 9.3
37 Hippurate	79	594	<= 1,150
38 Phenylacetate	<DL*	0.04	<= 0.15
39 Phenylpropionate	<DL*	0.4	<= 0.4
40 p-Hydroxybenzoate	0.13	0.99	<= 2.08
41 p-Hydroxyphenylacetate	8	19	<= 34
42 Indican	5	40	<= 74
43 Tricarballic acid	<DL*	0.73	<= 1.41
L. acidophilus / general bacterial			
44 D-Lactate	<DL*	2.3	<= 7.0
Clostridial species			
45 3,4-Dihydroxyphenylpropionate	<DL*	0.12	<= 0.12
Yeast / Fungal			
46 D-Arabinitol	27	36	<= 73

Creatinine = 96 mg/dL

* <DL = less than detection limit