

Accession #:
Order #:
Reference #:
Patient:
Date of Birth:
Age:
Sex:
Reprinted:
Comment:

Date Collected:
Date Received:
Date of Report:

Telephone:
Fax:



0091 Organix[®] Comprehensive Profile - Urine

Methodology: LC/Tandem Mass Spectroscopy, Colorimetric



0091 Organix® Comprehensive Profile - Urine

Methodology: LC/Tandem Mass Spectroscopy, Colorimetric

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

Ranges are for ages 1 - 12

Results
mcg/mg creatinine



95% Reference Range

Nutrient Markers

Fatty Acid Metabolism

(Carnitine & B2)

Item	Result	Quintile Ranking	95% Reference Range
1. Adipate	<DL*	7.5	<= 12.5
2. Suberate	0.85	3.2	<= 8.9
3. Ethylmalonate	1.5	5.5	<= 9.4

Carbohydrate Metabolism

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

Item	Result	Quintile Ranking	95% Reference Range
4. Pyruvate	2.9	4.3	<= 7.5
5. L-Lactate	>LIN** H	15.1	1.4-38.5
6. β-Hydroxybutyrate	1.1	2.2	<= 7.9

Energy Production (Citric Acid Cycle)

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

Item	Result	Quintile Ranking	95% Reference Range
7. Citrate	<DL* L	703	59-1276
8. Cis-Aconitate	25 L	77	27-119
9. Isocitrate	50 L	162	63-232
10. α-Ketoglutarate	15	38.0	<= 82.0
11. Succinate	5.6	36.1	<= 61.0
12. Fumarate	0.51	0.69	<= 1.56
13. Malate	0.8	1.9	<= 4.6
14. Hydroxymethylglutarate	2.5	8.9	<= 13.9



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B-Complex Vitamin Markers

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

Marker	Result	Quintile Ranking	95% Reference Range
15. a-Ketoisovalerate	0.21	4th	<= 0.54
16. a-Ketocaproate	0.25	3rd	<= 0.63
17. a-Keto-β-methylvalerate	0.35	4th	<= 1.12
18. Xanthurenate	0.65 H	5th	<= 0.46
19. β-Hydroxyisovalerate	2.6	1st	<= 22.5

Methylation Cofactor Markers

(B12, Folate)

20. Methylmalonate	1.1	2nd	<= 3.3
21. Formiminoglutamate	0.8	3rd	<= 3.2

Cell Regulation Markers

Neurotransmitter Metabolism Markers

(Tyrosine, Tryptophan, B6, antioxidants)

22. Vanilmandelate	<DL* L	1st	2.0-8.2
23. Homovanillate	3.2 L	1st	2.4-16.7
24. 5-Hydroxyindoleacetate	3.2 L	1st	2.6-22.2
25. Kynurenate	0.8	3rd	<= 2.3
26. Quinolinatate	2.1	2nd	<= 12.3
27. Picolinate	3.6 L	1st	4.8-28.7

Oxidative Damage and Antioxidant Markers

(Vitamin C and other antioxidants)

28. p-Hydroxyphenyllactate	0.22	4th	<= 0.67
29. 8-Hydroxy-2-deoxyguanosine	<DL*	1st	<= 8.7

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



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Toxicants and Detoxification

Detoxification Indicators

(Arg, NAC, Met, Mg, antioxidants)

Item	Result	Quintile Ranking	95% Reference Range
30. 2-Methylhippurate	0.11	0.122	<= 0.283
31. Orotate	0.44	1.05	<= 1.59
32. Glucarate	4.2	9.1	<= 14.8
33. a-Hydroxybutyrate	<DL*	0.3	<= 0.8
34. Pyroglutamate	25 L	101	34-154
35. Sulfate	2141	1073 - 3191	784-4494

Compounds of Bacterial or Yeast/Fungal Origin

Bacterial - general

Item	Result	Quintile Ranking	95% Reference Range
36. Benzoate	<DL*	2.1	<= 33.6
37. Hippurate	441	667	<= 1271
38. Phenylacetate	0.05	0.14	<= 0.80
39. Phenylpropionate	<DL*		<= 0.06
40. p-Hydroxybenzoate	0.74	2.2	<= 4.0
41. p-Hydroxyphenylacetate	5	24	<= 48
42. Indican	41	64	<= 99
43. Tricarballic acid	0.41	1.18	<= 2.00

L. acidophilus / general bacterial

44. D-Lactate	>LIN** H	2.6	<= 5.6
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Clostridial species

45. 3,4-Dihydroxyphenylpropionate	<DL*		<= 0.12
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Yeast / Fungal

46. D-Arabinitol	30	53	<= 92
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Creatinine = 205 mg/dL

* <DL = less than detection limit

** >LIN = greater than linearity limit