

PATIENT: **Sample Report**TEST REF: **TST-XXXXX**

TEST NUMBER: TNXXXXX

COLLECTED: DD-MM-YYYY

PATIENT NUMBER: PNXXXXX

RECEIVED: DD-MM-YYYY

GENDER: F

TESTED: DD-MM-YYYY

AGE: 62

DATE OF BIRTH: DD-MM-YYYY

PRACTITIONER: **Nordic Laboratories****TEST NAME: Organix Comprehensive****3301 Organix® Comprehensive Profile - Urine**

Methodology: LC/Tandem Mass Spectrometry, Colorimetric

Summary of Abnormal Findings

Biomarkers	Findings	Metabolic Pathway
Fatty Acid Metabolism	No Abnormality Found	
Carbohydrate Metabolism	No Abnormality Found	
Energy Production Markers		
Citrate	H	Citric acid cycle
Cis-Aconitate	H	Citric acid cycle
Isocitrate	H	Citric acid cycle
B-Complex Vitamin Markers		
b-Hydroxyisovalerate	H	Amino acid metabolism
Methylation Cofactor Metabolism		
Formiminoglutamate	H	Amino acid metabolism
Neurotransmitter Metabolism Markers		
Homovanillate	H	Dopamine metabolism
5-Hydroxyindoleacetate	H	Serotonin metabolism
Quinolinate	H	Tryptophan pathway
Picolinate	H	Tryptophan pathway
Oxidative Damage and Antioxidant Markers	No Abnormality Found	
Detoxification Indicators		
Pyroglutamate	H	Glutathione pathway
Bacterial - General		
Hippurate	H	Gut bacterial metabolism
Phenylacetate	H	Gut bacterial metabolism

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Biomarkers	Findings	Metabolic Pathway
Indican	H	Gut bacterial metabolism
L. acidophilus/General Bacteria	No Abnormality Found	
Clostridial Species	No Abnormality Found	
Yeast/Fungal	No Abnormality Found	

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

Ranges: Ages 13 and over

Results mcg/mg creatinine	QUINTILE DISTRIBUTION 1st 2nd 3rd 4th 5th	95% Reference Range
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Nutrient Markers
Fatty Acid Metabolism
(Carnitine & B2)

1. Adipate	10.2		6.2	≤ 11.1
2. Suberate	1.7		2.1	≤ 4.6
3. Ethylmalonate	2.6		3.6	≤ 6.3

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

4. Pyruvate	<DL		3.9	≤ 6.4
5. L-Lactate	14.1		8.5	0.6 - 16.4
6. β-Hydroxybutyrate	5.8		2.1	≤ 9.9

Energy Production (Citric Acid Cycle)
(B Comp., CoQ10, Amino Acids, Mg)

7. Citrate	1,022	H	601	56 - 987
8. Cis-Aconitate	83	H	51	18 - 78
9. Isocitrate	296	H	98	39 - 143
10. α-Ketoglutarate	<DL		19.0	≤ 35.0
11. Succinate	12.3		11.6	≤ 20.9
12. Fumarate	<DL		0.59	≤ 1.35
13. Malate	1.2		1.4	≤ 3.1
14. Hydroxymethylglutarate	4.3		3.6	≤ 5.1

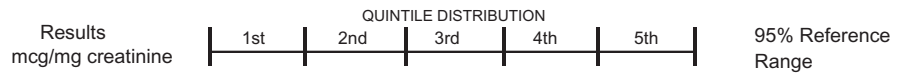
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Nutrient Markers
B-Complex Vitamin Markers
(B1, B2, B3, B5, B6, Biotin)

Item	Result	Flag	Value	Reference Range
15. α-Ketoisovalerate	<DL		0.25	<= 0.49
16. α-Ketoisocaproate	<DL		0.34	<= 0.52
17. α-Keto-β-Methylvalerate	<DL		0.38	<= 1.10
18. Xanthurenate	<DL		0.34	<= 0.46
19. β-Hydroxyisovalerate	11.6	H	7.6	<= 11.5

Methylation Cofactor Markers
(B12, Folate)

Item	Result	Flag	Value	Reference Range
20. Methylmalonate	1.7		1.7	<= 2.3
21. Formiminoglutamate	2.4	H	1.2	<= 2.2

Cell Regulation Markers
Neurotransmitter Metabolism Markers
(Tyrosine, Tryptophan, B6, Antioxidants)

Item	Result	Flag	Value	Reference Range
22. Vanilmandelate	4.5		1.6 - 3.9	1.2 - 5.3
23. Homovanillate	8.1	H	1.9 - 5.7	1.4 - 7.6
24. 5-Hydroxyindoleacetate	>UL	H	2.1 - 5.6	1.6 - 9.8
25. Kynurenate	1.0		1.0	<= 1.5
26. Quinolinate	11.0	H	4.0	<= 5.8
27. Picolinate	16.2	H	8.0	2.8 - 13.5

Oxidative Damage and Antioxidant Markers
(Vitamin C and Other Antioxidants)

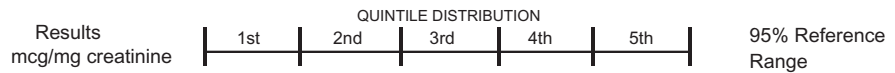
Item	Result	Flag	Value	Reference Range
28. p-Hydroxyphenyllactate	0.60		0.39	<= 0.66
29. 8-Hydroxy-2-deoxyguanosine	4.9		5.3	<= 7.6

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

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Toxicants and Detoxification
Detoxification Indicators
(Arg, NAC, Met, Mg, Antioxidants)

Item	Results	mcg/mg creatinine	Quintile Distribution	95% Reference Range
30. 2-Methylhippurate	0.072	0.084	Between 4th and 5th	<= 0.192
31. Orotate	0.69	0.69	Between 4th and 5th	<= 1.01
32. Glucarate	2.0	6.3	Between 1st and 2nd	<= 10.7
33. α-Hydroxybutyrate	<DL	0.3	Between 1st and 2nd	<= 0.9
34. Pyroglutamate	93	59	Between 4th and 5th	28 - 88
35. Sulfate	2,886	958, 2,347	Between 4th and 5th	690 - 2,988

Compounds of Bacterial or Yeast/Fungal Origin
Bacterial - General

36. Benzoate	<DL	0.6	Between 4th and 5th	<= 9.3
37. Hippurate	1,259	548	Between 4th and 5th	<= 1,070
38. Phenylacetate	0.27	0.11	Between 4th and 5th	<= 0.18
39. Phenylpropionate	<DL		Between 1st and 2nd	<= 0.06
40. p-Hydroxybenzoate	1.7	1.1	Between 4th and 5th	<= 1.8
41. p-Hydroxyphenylacetate	30	19	Between 4th and 5th	<= 34
42. Indican	195	64	Between 4th and 5th	<= 90
43. Tricarballic acid	<DL	0.73	Between 1st and 2nd	<= 1.41

L. acidophilus / General Bacterial

44. D-Lactate	0.3	2.0	Between 2nd and 3rd	<= 4.1
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Clostridial Species

45. 3,4-Dihydroxyphenylpropionate	<DL		Between 1st and 2nd	<= 0.05
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Yeast / Fungal

46. D-Arabinitol	47	36	Between 4th and 5th	<= 73
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Creatinine = 43 mg/dL

<DL = less than detection limit

>UL = greater than upper linearity limit

This test has been developed and its performance characteristics determined by Genova Diagnostics, Inc. It has not been cleared by the U.S. Food and Drug Administration.

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Additional Considerations

This page is provided as a starting point that may guide decisions about medical treatment based on the test results. It is derived only from the laboratory results included in this report. Final recommendations should be based on consideration of the patient's medical history and current clinical condition.

Nutrient	Nutrient Need
Vitamin C	Moderate
Vitamin E (mixed tocopherols)	Low
Vitamin B-12 (Cobalamin)	Moderate
Folic Acid	Moderate
Biotin	High
Magnesium	Low
Selenium	Moderate
N-Acetylcysteine	Low
L-Arginine	Moderate
Glycine	High
Need for other antioxidants	Moderate

Various conditionally essential nutrients and other potentially beneficial interventions appear in this section only if relevant abnormalities are present.

Amino acids listed on this page result from functional markers of individual amino acid insufficiency and do not reflect amino acids measured in plasma.

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General Supplement Ranges

These supplement ranges are not adjusted for age, sex, or gender.

Nutrient supplementation is at the discretion of the treating clinician. The supplement dose ranges provided below are meant for educational purposes only. These dosage ranges relate to findings commonly found on Genova's nutritional panels and do not apply to specific disease conditions where different dosages may be warranted.

Nutrient	Adult Dosage Range*
Vitamin C	0-1000 mg
Vitamin D	0-2000 IU
Vitamin E (mixed tocopherols)	0-400 IU
Vitamin B-1 (Thiamin)	0-50 mg
Vitamin B-2 (Riboflavin)	0-50 mg
Vitamin B-3 (Niacin)	0-50 mg
Vitamin B-5 (Pantothenic Acid)	0-100 mg
Vitamin B-6 (Pyridoxine)	0-50 mg
Vitamin B-12 (Cobalamin)	0-1000 mcg
Folic Acid	0-1000 mcg
Biotin	0-400 mcg
Magnesium	0-400 mg
Selenium	0-200 mcg
Carnitine	0-1000 mg
Coenzyme Q10	0-200 mg
Lipoic Acid	0-200 mg
N-Acetylcysteine	0-1000 mg
L-Arginine	0-1000 mg
Glycine	0-3000 mg

*Dosage ranges are adapted from the textbook *Nutritional Medicine* by Alan Gaby, M.D.¹

1. Gaby AR. *Nutritional Medicine*. Vol 265: Fritz Perlberg Publishing; 2011.