



Patient: **SAMPLE**
PATIENT

DOB:

Sex:

MRN:

3304 Organix ® Basic Profile - Urine

Methodology: LC/Tandem Mass Spectrometry, Colorimetric

Summary of Abnormal Findings

Biomarkers	Findings	Metabolic Pathway
Fatty Acid Metabolism	No Abnormality Found	
Carbohydrate Metabolism		
Pyruvate	H	Glycolysis
L-Lactate	H	Glycolysis
b-Hydroxybutyrate	Borderline High	Ketone production
Energy Production Markers	No Abnormality Found	
B-Complex Vitamin Markers		
a-Keto-b-Methylvalerate	Borderline High	Amino acid metabolism
b-Hydroxyisovalerate	Borderline High	Amino acid metabolism
Methylation Cofactor Markers		
Methylmalonate	Borderline High	Amino acid metabolism
Formiminoglutamate	Borderline High	Amino acid metabolism
Neurotransmitter Metabolism Markers		
Vanilmandelate	Borderline High	Epinephrine & norepinephrine metabolism
Homovanillate	Borderline High	Dopamine metabolism
5-Hydroxyindoleacetate	Borderline High	Serotonin metabolism
Kynurenate	Borderline High	Tryptophan pathway
Detoxification Indicators		
Orotate	Borderline High	Urea cycle



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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					95% Reference Range
	1st	2nd	3rd	4th	5th	

Nutrient Markers

Fatty Acid Metabolism

(Carnitine & B2)

1. Adipate	4.2				6.2	<= 11.1
2. Suberate	1.5				2.1	<= 4.6
3. Ethylmalonate	3.2				3.6	<= 6.3

Carbohydrate Metabolism

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

4. Pyruvate	7.2	H			3.9	<= 6.4
5. L-Lactate	16.6	H			8.5	0.6 - 16.4
6. β-Hydroxybutyrate	3.7				2.1	<= 9.9

Energy Production (Citric Acid Cycle)

(B Comp., CoQ10, Amino Acids, Mg)

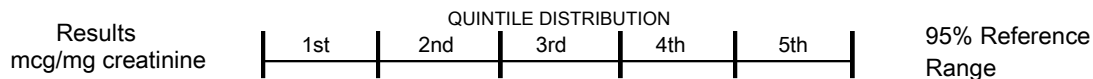
7. Citrate	263				601	56 - 987
8. Cis-Aconitate	36				51	18 - 78
9. Isocitrate	82				98	39 - 143
10. α-Ketoglutarate	4.0				19.0	<= 35.0
11. Succinate	4.3				11.6	<= 20.9
12. Fumarate	0.47				0.59	<= 1.35
13. Malate	0.9				1.4	<= 3.1
14. Hydroxymethylglutarate	3.4				3.6	<= 5.1

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Nutrient Markers

B-Complex Vitamin Markers

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

Item	Results	Quintile Distribution	95% Reference Range
15. α-Ketoisovalerate	<DL	0.25	<= 0.49
16. α-Ketoisocaproate	0.17	0.34	<= 0.52
17. α-Keto-β-Methylvalerate	0.63	0.38	<= 1.10
18. Xanthurenate	0.06	0.34	<= 0.46
19. β-Hydroxyisovalerate	7.7	7.6	<= 11.5

Methylation Cofactor Markers

(B12, Folate)

20. Methylmalonate	1.8	1.7	<= 2.3
21. Formiminoglutamate	1.4	1.2	<= 2.2

Cell Regulation Markers

Neurotransmitter Metabolism Markers

(Tyrosine, Tryptophan, B6, Antioxidants)

22. Vanilmandelate	4.1	1.6 - 3.9	1.2 - 5.3
23. Homovanillate	5.7	1.9 - 5.7	1.4 - 7.6
24. 5-Hydroxyindoleacetate	6.0	2.1 - 5.6	1.6 - 9.8
25. Kynurenate	1.0	1.0	<= 1.5
26. Quinolinate	1.7	4.0	<= 5.8
27. Picolinate	3.8	8.0	2.8 - 13.5

Toxicants and Detoxification

Detoxification Indicators

(Arg, NAC, Met, Mg, Antioxidants)

28. 2-Methylhippurate	0.028	0.084	<= 0.192
29. Orotate	0.98	0.69	<= 1.01
30. Glucarate	3.1	6.3	<= 10.7
31. α-Hydroxybutyrate	<DL	0.3	<= 0.9
32. Pyroglutamate	44	59	28 - 88

Creatinine = 123 mg/dL

<DL = less than detection limit

>UL = greater than upper linearity limit

NR = Not Reportable

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

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. Final recommendations should be based on consideration of the patient's medical history and current clinical condition.

Nutrient	Nutrient Need	Clinician Recommendations
Vitamin B-1 (Thiamin)	Low: 10-25 mg	
Vitamin B-2 (Riboflavin)	Low: 10-25 mg	
Vitamin B-3 (Niacin)	Low: 10-50 mg	
Vitamin B-5 (Pantothenic Acid)	Low: 10-25 mg	
Vitamin B-6 (Pyridoxine)	Optional: 0-10 mg	
Vitamin B-12 (Cobalamin)	Optional: 0-500 mcg	
Folic Acid	Optional: 0-1000 mcg	
Biotin	Optional: 0-400 mcg	
Magnesium	Optional: 0-100 mg	
Coenzyme Q10	Low: 20-60 mg	
Lipoic Acid	High: 200-600 mg	
L-Arginine	Optional: 0-250 mg	

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.

Organix™ (Organic Acids) Profile

Specimen Collection Instructions

This specimen collection kit can be used for the following test(s):

0091 OrganixSM Comprehensive - Urine

0291 OrganixSM Basic - Urine

0097 OrganixSM Dysbiosis - Urine

0087 DNA/Oxidative Stress Marker (8-OHdG) - Urine

0088 Neopterin/Biopterin Profile - Urine

0391 Organix Comprehensive NY - Urine

0397 Organix Compounds of Microbial Origin NY - Urine

3291 Organix Basic NY - Urine

IMPORTANT:

All patient specimens require two unique identifiers
(*patient's name and date of birth*), as well as *date of collection*.

Patient's first and last name, date of birth, gender, and date of collection must be recorded on the **Test Requisition Form** as well as all tube(s) and/or vial(s), using a permanent marker, or the test may not be processed.

Specimen

Overnight Urine, 12 ml, frozen

Collection Materials

- Clean collection container
(NOT included in this kit)
- Clear-cap plastic vial
with thymol preservative
- Disposable pipette

Shipping Materials

- Absorbent pad
- Ice pack
- Test Requisition Form
- Personal Health Assessment Form
- Biohazard bag with side pocket
- Specimen collection kit box
- FedEx® Clinical Lab Pak and Billable Stamp



Call 800.522.4762 or visit our website at www.gdx.net

Please read all instructions carefully before beginning.

Patient Preparation

- It is best to **ship your specimen within 24 hours of collection**. Please refer to the enclosed shipping instructions **before** you collect to determine what days you can ship your specimen.
- **It is not necessary** to discontinue nutritional supplements prior to this specimen collection. Abnormalities that may be found will reveal special needs that have not been met by recent dietary and supplemental intake.
- **Decrease** fluid intake to avoid excessive dilution of the urine
 - » For adults, **restrict** intake to three 8 oz. glasses or less for 24 hours
 - » **Make sure that no more than 8 oz.** of this is consumed after 8:00 PM the evening prior to urine collection
- **Do not collect** urine during menstruation
- Vial contains preservative - **Do Not Rinse**

Urine Collection

1. **Write** patient's **first and last name, date of birth, gender** and **date of collection** on the Test Requisition Form (located in the pouch on top of the Specimen Collection Kit Box), as well as on the clear-cap plastic vial, using a permanent marker.
 - **IMPORTANT:** To ensure accurate test results you must provide the requested information.
2. **Empty** bladder before going to bed at night. **Do not collect** this urine.
3. **Collect** urine (if any) during the night and first morning urine into a clean container.
4. **Pipette** urine, using a fresh disposable pipette, into the clear-cap plastic vial to the 12 ml mark (**DO NOT OVERFILL**). **Screw** the cap on tightly.
5. **Dispose** of remaining urine.
6. **Freeze** the clear-cap plastic vial and ice pack.

Specimen Preparation

1. **Place** the frozen urine specimen, frozen ice pack, and absorbent pad into the biohazard bag.
2. **Staple** payment to the bottom right-hand corner of the completed Test Requisition Form and complete the Personal Health Assessment Form; **Fold** and **place** them in the side pocket of the biohazard bag.
3. **Seal** the biohazard bag, **place** it into the specimen collection kit box, and **close** the box.

Checklist (Prior to Shipping)

1. Vial

- Patient's first and last name, date of birth, gender, and date of collection are written on the vial
- Vial cap is screwed on tightly

2. Frozen

- Clear-cap plastic vial (urine)
- Ice pack

3. Test Requisition Form with Payment

- Test Requisition Form is complete
- Personal Health Assessment Form is complete
- Payment is included