



Reported: April 22, 2020
 Received: April 08, 2020
 Collected: April 06, 2020

Istanbul Laboratories Trade A.S.
 Gurkan Gelibolu MD
 Kaptanpasa Mah., Piyalepasa Bulvari
 Ortadogu Plaza No: 73 D:9 Okmeydani
 Istanbul, 34384
 Turkey



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		
L-Lactate	Borderline High	Glycolysis
Energy Production Markers		
Hydroxymethylglutarate	Borderline High	HMG-CoA pathway
B-Complex Vitamin Markers	No Abnormality Found	
Methylation Cofactor Markers	No Abnormality Found	
Neurotransmitter Metabolism Markers		
Homovanillate	L	Dopamine metabolism
5-Hydroxyindoleacetate	Borderline High	Serotonin metabolism
Kynurenate	Borderline High	Tryptophan pathway
Oxidative Damage and Antioxidant Markers		
8-Hydroxy-2-deoxyguanosine	Borderline High	Oxidative damage
Detoxification Indicators		
Orotate	H	Urea cycle
Bacterial - General		
Hippurate	H	Gut bacterial metabolism
Indican	Borderline High	Gut bacterial metabolism
L. acidophilus/General Bacteria	No Abnormality Found	
Clostridial Species	No Abnormality Found	
Yeast/Fungal	No Abnormality Found	

3425 Corporate Way
Duluth, GA 30096

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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)

Item	Results	Value	Reference Range
1. Adipate	1.3	6.2	<= 11.1
2. Suberate	0.4	2.1	<= 4.6
3. Ethylmalonate	1.6	3.6	<= 6.3

Carbohydrate Metabolism

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

Item	Results	Value	Reference Range
4. Pyruvate	<DL	3.9	<= 6.4
5. L-Lactate	10.4	8.5	0.6 - 16.4
6. β-Hydroxybutyrate	<DL	2.1	<= 9.9

Energy Production (Citric Acid Cycle)

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

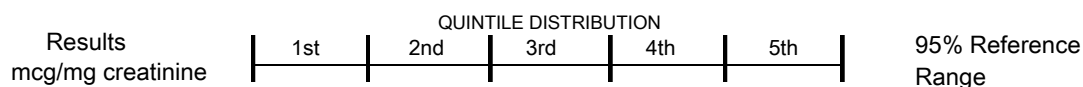
Item	Results	Value	Reference Range
7. Citrate	312	601	56 - 987
8. Cis-Aconitate	35	51	18 - 78
9. Isocitrate	72	98	39 - 143
10. α-Ketoglutarate	12.8	19.0	<= 35.0
11. Succinate	7.4	11.6	<= 20.9
12. Fumarate	<DL	0.59	<= 1.35
13. Malate	0.3	1.4	<= 3.1
14. Hydroxymethylglutarate	3.8	3.6	<= 5.1

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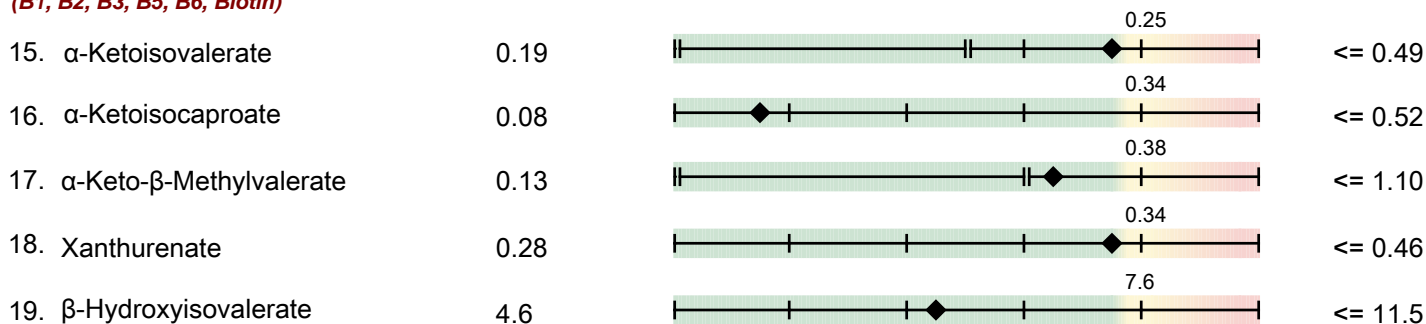
Ranges: Ages 13 and over



Nutrient Markers

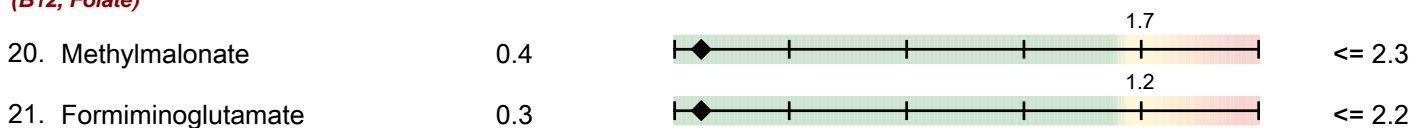
B-Complex Vitamin Markers

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



Methylation Cofactor Markers

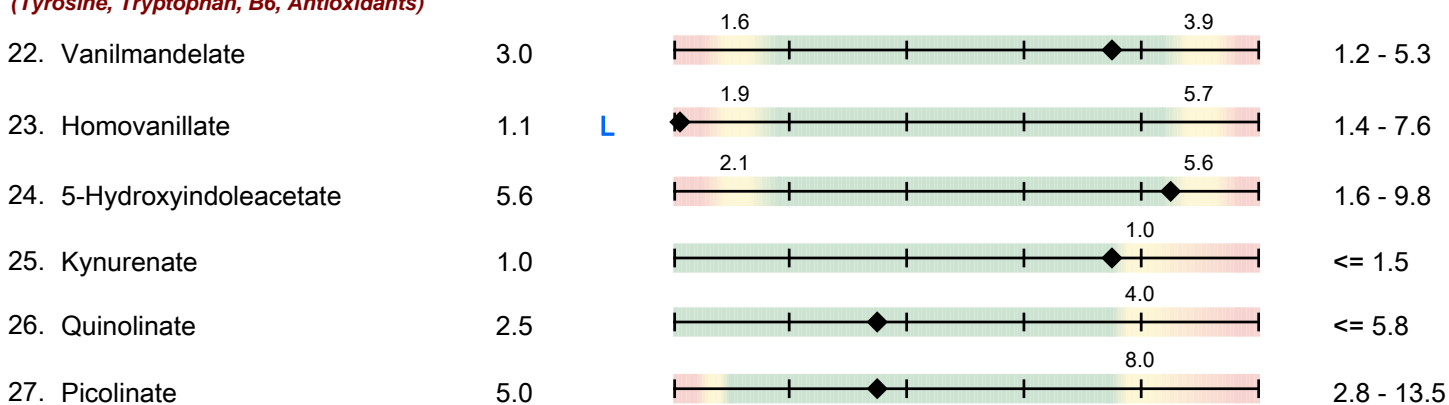
(B12, Folate)



Cell Regulation Markers

Neurotransmitter Metabolism Markers

(Tyrosine, Tryptophan, B6, Antioxidants)



Oxidative Damage and Antioxidant Markers

(Vitamin C and Other Antioxidants)



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

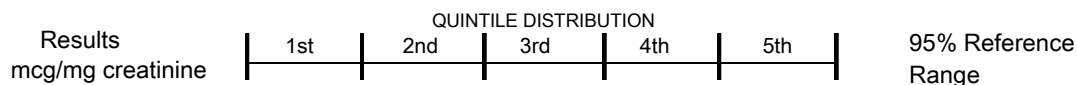


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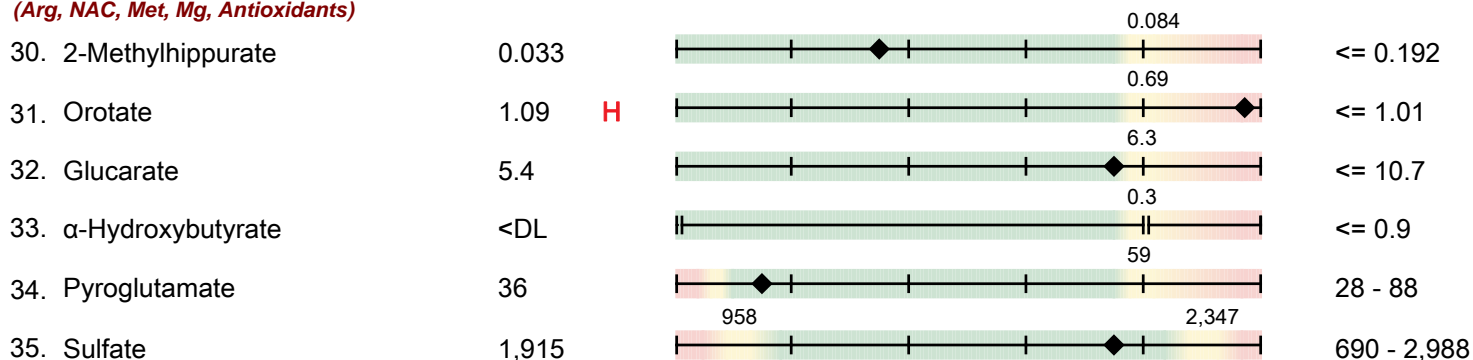
Ranges: Ages 13 and over



Toxicants and Detoxification

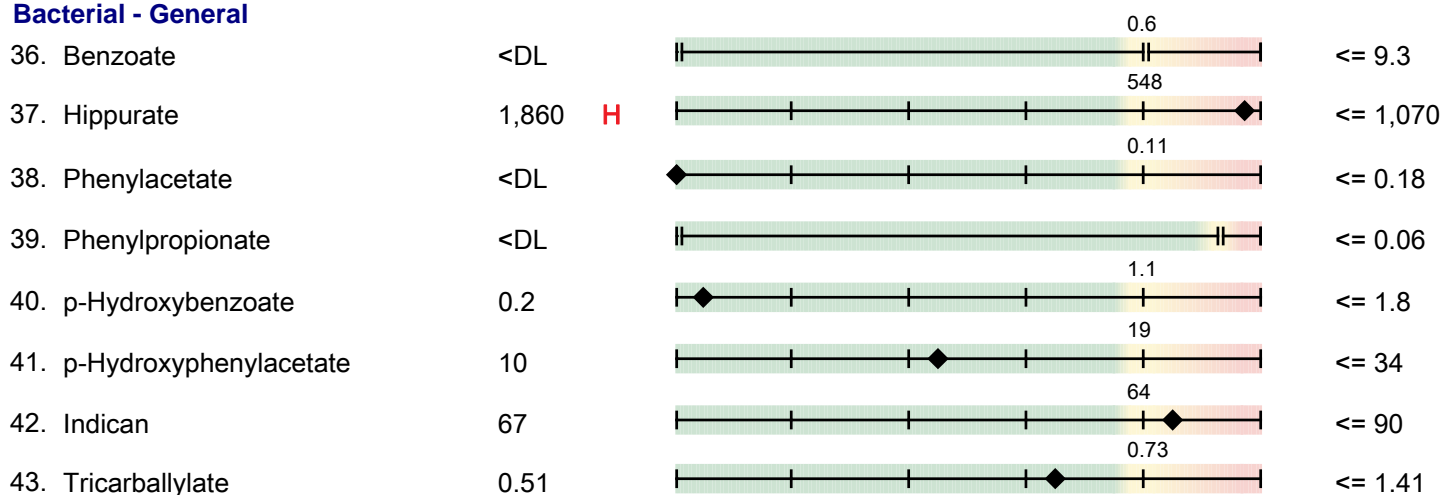
Detoxification Indicators

(Arg, NAC, Met, Mg, Antioxidants)



Compounds of Bacterial or Yeast/Fungal Origin

Bacterial - General



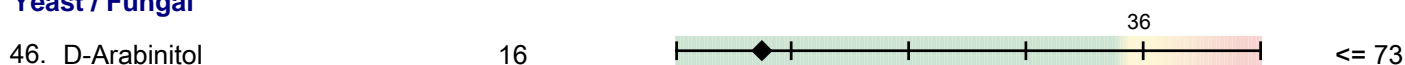
L. acidophilus / General Bacterial



Clostridial Species



Yeast / Fungal



Creatinine = 155 mg/dL

<DL = less than detection limit

>UL = greater than upper linearity limit

Lab Comments

**Requisition/Sample labeling discrepancy noted. Ordering physician has been contacted and authorizes testing to be



Commentary

performed. 04/09/2020 ar1

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.



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 C	Optional: 0-1000 mg	
Vitamin E (mixed tocopherols)	Optional: 0-100 IU	
Vitamin B-1 (Thiamin)	Optional: 0-10 mg	
Vitamin B-2 (Riboflavin)	Optional: 0-10 mg	
Vitamin B-3 (Niacin)	Optional: 0-10 mg	
Vitamin B-5 (Pantothenic Acid)	Optional: 0-10 mg	
Vitamin B-6 (Pyridoxine)	Optional: 0-10 mg	
Magnesium	Low: 100-200 mg	
Coenzyme Q10	Optional: 0-20 mg	
Lipoic Acid	Optional: 0-50 mg	
L-Arginine	Moderate: 250-500 mg	
Tyrosine	Low: 100-250 mg	
Need for other antioxidants	Optional	

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.