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Ordered By: [redacted]

Accession Number: [redacted]
Patient: [redacted]
Report Date:
Reprinted:
Comment:

EA

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

Organix™ Profile

Methodology: LC/Tandem Mass Spectroscopy, Colorimetric

Results are expressed as mcg/mg creatinine.

Ranges are for ages 13 and over

Percentile Ranking by Quintile

1st | 2nd | 3rd | 4th | 5th

20% 40% 60% 80%

		Results		Percentile Ranking by Quintile	95% Reference Interval
B-Vitamin Insufficiency					
1	Pyruvate	24.1	H	3.9	<= 6.4
2	a-Ketoglutarate	<DL*		19.0	<= 35.0
3	a-Ketoisovalerate	<DL*		0.25	<= 0.49
4	a-Ketoisocaproate	<DL*		0.34	<= 0.52
5	a-Keto-β-Methylvalerate	<DL*		0.38	<= 1.10
6	Xanthurenate	0.66	H	0.34	<= 0.46
7	β-Hydroxyisovalerate	6.2		7.6	<= 11.5
8	Methylmalonate	4.0	H	1.7	<= 2.3
9	Formiminoglutamate	1.0		1.2	<= 2.2
Cellular Energy					
10	Adipate	6.7	H	6.2	<= 11.1
11	Suberate	3.5	H	2.1	<= 4.6
12	Ethylmalonate	11.4	H	3.6	<= 6.3
13	L-Lactate	34.5	H	12.6	1.6 - 57.1
14	β-Hydroxybutyrate	<DL*		2.1	<= 9.9
15	Succinate	18.7	H	11.6	<= 20.9
16	Fumarate	<DL*		0.59	<= 1.35
17	Malate	0.5		1.4	<= 3.1
18	Hydroxymethylglutarate	3.2		3.6	<= 5.1

Georgia Lab Lic. Code #067-007
CLIA ID# 11D0255349
New York Clinical Lab PFI #4578
Florida Clinical Lab Lic. #800008124

Testing Performed by Genova Diagnostics-Metametrix
3425 Corporate Way Duluth, GA 30096

Laboratory Directors:
Robert M. David, PhD
David L. Scott, Jr. PhD

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		Results		Percentile Ranking by Quintile (1st / 2nd / 3rd / 4th / 5th; 20% / 40% / 60% / 80%)	95% Reference Interval
Neural Function					
19	Vanilmandelate	5.2	H	1.6 — 3.9	1.2 - 5.3
20	Homovanillate	6.4	H	1.9 — 5.7	1.4 - 7.6
21	5-Hydroxyindoleacetate	6.6	H	2.1 — 5.6	1.6 - 9.8
22	Kynurenate	1.5	H	1.0	<= 1.5
23	Quinolinate	5.0	H	4.0	<= 5.8
24	Picolinate	5.2		8.0	2.8 - 13.5
Detoxification					
25	Citrate	<DL*	L	601	56 - 987
26	Cis-Aconitate	35		51	18 - 78
27	Isocitrate	89		98	39 - 143
28	2-Methylhippurate	0.177	H	0.084	<= 0.192
29	Orotate	0.86	H	0.69	<= 1.01
30	Glucarate	6.6	H	6.3	<= 10.7
31	a-Hydroxybutyrate	<DL*		0.3	<= 0.9
32	Pyroglutamate	58		59	28 - 88
33	Sulfate	2,277		958 — 2,347	690 - 2,988

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Percentile Ranking by Quintile

1st | 2nd | 3rd | 4th | 5th

20% 40% 60% 80%

		Results	Percentile Ranking by Quintile	95% Reference Interval
Compounds of Bacterial Origin				
34	Benzoate	<DL*	0.6	<= 9.3
35	Phenylacetate	<DL*	0.11	<= 0.18
36	Phenylpropionate	<DL*		<= 0.06
37	p-Hydroxybenzoate	0.5	1.1	<= 1.8
38	p-Hydroxyphenylacetate	62 H	19	<= 34
39	Indican	58	64	<= 90
40	Tricarballylate	<DL*	0.73	<= 1.41
41	3,4-Dihydroxyphenylpropionate	<DL*		<= 0.05
42	D-Lactate	<DL*	1.9	<= 4.3

Creatinine =25 mg/dl

* <DL = less than detection limit

** >LIN = greater than linearity limit

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8-Hydroxy-2 deoxyguanosine - Urine

Methodology: LC/Tandem Mass Spectroscopy, Colorimetric

What is 8-Hydroxy-2'-deoxyguanosine (8-OHdG)?

In its efforts to produce the chemical energy to power your cells and fight infection, your body makes harmful chemicals called free radicals. Sustained inflammatory responses cause increased production of these free radicals. When local antioxidant protection fails to keep free radicals in check, there is threat of damage to cell membranes, enzymes, proteins and DNA. 8-OHdG is a product of oxidative damage by free radicals to DNA, and the 8-OHdG test tells you if you have enough antioxidants in your system. High levels of 8-OHdG are sometimes associated with toxic exposure, cancer, heart disease, diabetes, aging, liver disease, Parkinson's disease, and smoking.

Ranges: Ages 13 and over.

	ng/mg creatinine Results		Quintile Ranking (1st | 2nd | 3rd | 4th | 5th)	95% Reference Interval
8-Hydroxy-2-deoxyguanosine	7.5	H	5.3	<= 7.6

What does my 8-Hydroxy-2'-deoxyguanosine (8-OHdG) result mean?

If your 8-OHdG is high, your body is failing to control the rate of formation of free radicals. You can increase your protection by taking vitamins E and C, selenium, beta-carotene, and bioflavonoids. Many products are available that offer combinations of these and other antioxidants that may be beneficial.