

# OAT?

## What Is the Organic Acid Urinary Analysis - OAT?

Urine organic acid testing is useful in the diagnosis and monitoring of patients with inborn errors of organic acid metabolism, inborn errors of amino acid metabolism, urea cycle defects, and defects of the mitochondrial respiratory chain.

Limitations - Organic acid analysis may fail to detect certain disorders that are characterized by minimal or intermittent metabolite excretion.

Using Liver Life,<sup>™</sup> patient sees improvement in Organic Acid Test due to an increased function of the liver.

TEST	BASELINE LAB TEST	8 MONTHS LATER	NORMAL VALUE RANGE
<b>Fatty Acid Metabolites:</b>			
3-hydroxybutyric	495.00	5.59	0.0-10.0
Acetoacetic	616.42	30.25	0.0-10.0
<b>Neurotransmitters:</b>			
VMA	2.07	1.88	1.0-4.7
<b>Vitamin Indicators:</b>			
Ascorbic	0.0	194.91	10.0-200.0
Pyridoxic	0.0	41.84	2.0-26.0
Pantothenic	0.46	11.39	1.0-4.0
<b>Glycolysis:</b>			
2-hydroxybutyric	6.24	.42	0.0-2.0
<b>Amino Acid:</b>			
2-hydroxyisovaleric	10.24	.17	0.0-2.0
<b>Miscellaneous:</b>			
Hippuric	3958.54	143.21	10.0-400.0
Glycolic	105.71	5.97	0.0-100.0
Oxalic	84.77	63.57	0.0-37.0

\*This child's baseline OAT was taken prior to the introduction of Liver Life,<sup>™</sup> the post test results are after 8 months of using Liver Life.<sup>™</sup>

**Liver Life<sup>™</sup> enabled this child to decrease yeast, bacteria, and oxalic acid, increase absorption of vitamins and normalize excessive fatty acid oxidation.\***

-The changes in hippuric, 2-hydroxybutyric, and VMA suggest that this child was able to significantly decrease bacteria levels to a healthy range.\*

-The changes in glycolic and oxalic suggest that this child was able to decrease yeast, and oxalic acids.\*

-The Vitamin Indicators show that this child had a deficiency in all listed vitamins.\*

After using Liver Life,<sup>™</sup> those vitamin levels were significantly increased.\*

-The Fatty Acid Metabolites indicate that ketones were being produced due to excessive fatty acid oxidation.\*

After using Liver Life,<sup>™</sup> the levels of ketones are in, or much closer to, a healthy range.\*

-The elevated values of 2-hydroxyisovaleric may be due to deficiencies of the vitamins thiamine or lipoic acid. After using Liver Life,<sup>™</sup> these elevated levels are now within normal range.\*

Liver Life for the revitalization of healthy liver function.

To order, please call: (888) 635-9582

\*These statements have not been approved by the FDA. This product does not intend to diagnose, treat, cure, or prevent any disease.

BioRay Inc. (949)305-7454

