

Patient Sample Patient
Collected:
DOB:
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Accession
Received:
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Ordered by:

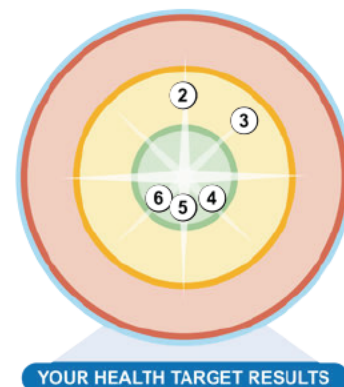
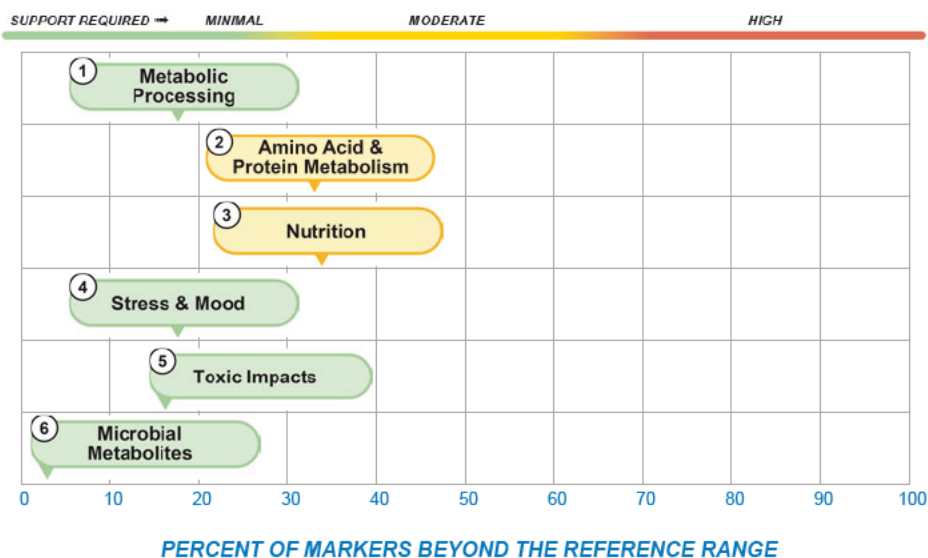
METHODOLOGY: LC-MS/MS - OMX Urine + Plasma

YOUR PERSONALIZED REPORT

The charts on this page are designed to give you a bird's-eye-view of your current metabolic signature and help you get a general preview of the detailed report found on the following pages.

METABOLOMIC SIGNATURE

Identifying Impact of Functional Categories



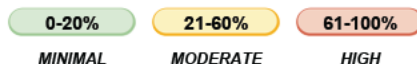
Findings show that 2 of 6 Functional Categories have markers beyond the reference range.

Subcategories are identified below.

Identifying Impact of Subcategories

NOTE: Below is a list of the Functional Categories and the included subcategories. It lists the percentage of markers that are beyond the reference range so clinicians can better target areas of concern.

PERCENT OF MARKERS BEYOND THE REFERENCE RANGE



1 Metabolic Processing 20 %

Subcategory	Impact
Glycolysis	0-20%
Krebs Cycle	0-20%
Fatty Acid Oxidation	0-20%
Ketones	0-20%

2 Amino Acid & Protein Metabolism 35 %

Subcategory	Impact
Phenylalanine Metabolism	0-20%
Branched-Chain Amino Acids	21-60%
Tryptophan Metabolism	21-60%
Methionine Metabolism	21-60%
Histidine Metabolism	21-60%
Threonine/Glycine/Serine	0-20%
Lysine Metabolism	0-20%
Glutamate & Aspartate	0-20%
Collagen Catabolism	0-20%

3 Nutrition 36 %

Subcategory	Impact
B-Complex (B1, B2, B3, B5, LA)	21-60%
Vitamin B-12	0-20%
Folate	0-20%
Vitamin B6	0-20%
Biotin	21-60%
Plant Components	0-20%
Meat Intake	21-60%
Sugar Intake	21-60%

4 Stress & Mood 20 %

Subcategory	Impact
Neurotransmitter	0-20%
Catecholamine Turnover	21-60%
Serotonin Turnover	0-20%
Steroid Hormone	0-20%

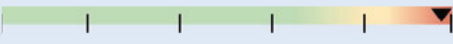
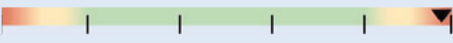
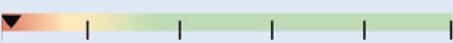
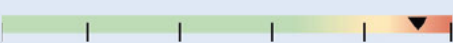
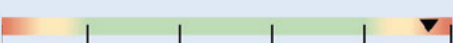
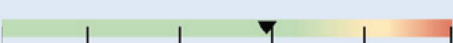
5 Toxic Impacts 13 %

Subcategory	Impact
Oxidative Damage	0-20%
Toxins	21-60%
Urea Cycle	0-20%
Kidney Impacts	0-20%

6 Microbial Metabolites 0 %

Subcategory	Impact
Amino Acid Microbial Metabolites	0-20%
Polyphenols Microbial Metabolites	0-20%
Isoflavone microbial Metabolites	0-20%
Fungal Assessment	0-20%

1 - Metabolic Processing

Glycolysis		Result	20% 40% 60% 80%	Reference
Glucose		17.9 H		< 15.2 mg/dL
<i>Glucokinase</i>				
Pyruvic Acid		38.1		< 47.2 nmol/mg Creatinine
<i>Pyruvate dehydrogenase + B1, B2, B3, B5 LA</i>				
Lactic Acid		1112.3 H		23.1 - 722.6 nmol/mg Creatinine
<i>Lactate dehydrogenase + B3</i>				
(P) Alanine		767.2 H		271.5 - 730.0 nmol/mL
<i>Alanine transaminase + B6</i>				
Krebs Cycle		Result	20% 40% 60% 80%	Reference
Citric Acid		137.5 L		> 356.2 nmol/mg Creatinine
<i>Citrate synthase</i>				
cis-Aconitic Acid		302.8		91.3 - 363.1 nmol/mg Creatinine
<i>Aconitase</i>				
Isocitric Acid		385.6		< 415.6 nmol/mg Creatinine
<i>Isocitrate dehydrogenase + B3</i>				
α-Ketoglutaric Acid		30.6		< 157.2 nmol/mg Creatinine
<i>alpha-Ketoglutarate dehydrogenase + B1, B2, B3, B5, LA</i>				
Succinic Acid		132.0		4.8 - 224.1 nmol/mg Creatinine
<i>Succinic dehydrogenase + B2</i>				
Fumaric Acid		1322.0		320.2 - 3375.5 nmol/mg Creatinine
<i>Fumarase</i>				
Malic Acid		6.6		< 21.5 nmol/mg Creatinine
<i>Malate dehydrogenase + B3</i>				

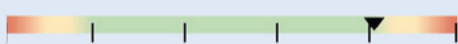
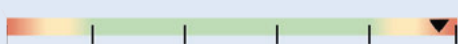
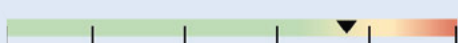
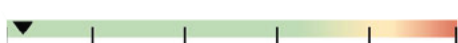
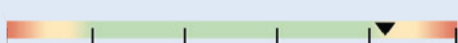
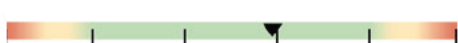
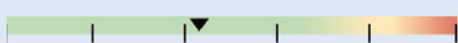
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CLIA# 11D-2097795
Medical Director - Diane Farhi, MD

1 - Metabolic Processing

Fatty Acid Oxidation		Result	20% 40% 60% 80%	Reference
Adipic Acid		7.6		2.0 - 15.1 nmol/mg Creatinine
<i>Saturated dicarboxylic acid</i>				
Suberic Acid		17.3		3.0 - 29.4 nmol/mg Creatinine
<i>Fatty acid oxidation + Carnitine</i>				
Pimelic Acid		28.1		5.9 - 31.8 nmol/mg Creatinine
<i>Saturated dicarboxylic acids</i>				
Hexanoylglycine		0.8		< 2.6 nmol/mg Creatinine
<i>Medium-chain acyl glycines</i>				
Suberylglycine		1.2		< 2.3 nmol/mg Creatinine
<i>Medium-chain acyl glycines</i>				
3-Phenylpropionylglycine		<DL		< 1.3 nmol/mg Creatinine
<i>Medium-chain acyl glycines</i>				
Ethylmalonic Acid		22.3		5.0 - 43.3 nmol/mg Creatinine
<i>Dicarboxylic acid</i>				
2-Methylsuccinic Acid		8.0		3.2 - 21.1 nmol/mg Creatinine
<i>Dicarboxylic acid</i>				
Ketones		Result	20% 40% 60% 80%	Reference
β-Hydroxybutyric Acid		3.3		< 60.5 nmol/mg Creatinine
<i>beta-Hydroxybutyrate dehydrogenase + B3</i>				

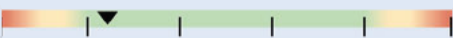
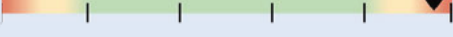
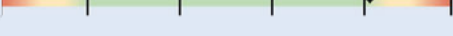
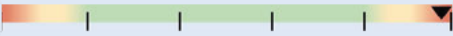
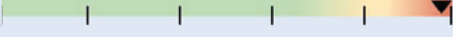
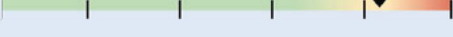
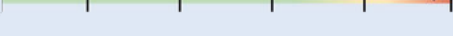
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2 - Amino Acid & Protein Metabolism

Phenylalanine Metabolism		Result	20% 40% 60% 80%	Reference
(P) Phenylalanine	Phenylalanine hydroxylase + BH4	39.3		31.7 - 71.0 nmol/mL
Phenylacetic Acid	Aldehyde dehydrogenase	1.4		0.5 - 19.1 nmol/mg Creatinine
(P) Tyrosine	Tyrosine hydroxylase + BH4	47.6		27.8 - 84.5 nmol/mL
Homovanillic Acid	COMT + Magnesium & Monoamine oxidase + B2	40.9 H		< 10.3 nmol/mg Creatinine
Vannilylmandelic Acid	Monoamine oxidase + B2	19.4		4.8 - 21.4 nmol/mg Creatinine
4-Hydroxyphenylpyruvic Acid	Tyrosine aminotransferase + B6	288.2		35.5 - 1116.3 nmol/mg Creatinine
Homogentisic Acid	4-Hydroxyphenylpyruvate dioxygenase + Iron	95.6		7.9 - 336.4 nmol/mg Creatinine
Branched-Chain Amino Acids		Result	20% 40% 60% 80%	Reference
(P) Total Branched Chain Amino Acids	Branched-chain amino acid transaminase + B6	703.5 H		211.9 - 577.3 nmol/mL
(P) Valine	Branched-chain amino acid transaminase + B6	330.7 H		109.3 - 283.0 nmol/mL
α-Ketoisovaleric Acid	Branched-chain keto acid dehydrogenase + B1, B2, B3, B5, LA	62.9 H		< 11.9 nmol/mg Creatinine
(P) Isoleucine/allo-Isoleucine	Branched-chain amino acid transaminase + B6	142.8 H		35.5 - 112.4 nmol/mL
α-Keto-β-methylvaleric Acid	Branched-chain keto acid dehydrogenase + B1, B2, B3, B5, LA	1.5		< 11.9 nmol/mg Creatinine
(P) Leucine	Branched-chain amino acid transaminase + B6	230.0 H		57.1 - 187.5 nmol/mL
α-Ketoisocaproic Acid	Branched-chain keto acid dehydrogenase + B1, B2, B3, B5, LA	19.8 H		< 17.0 nmol/mg Creatinine

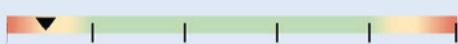
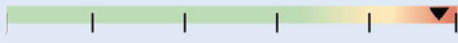
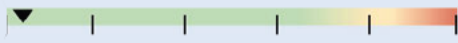
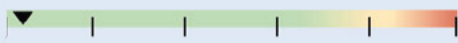
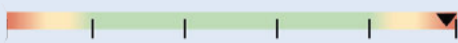
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2 - Amino Acid & Protein Metabolism

Tryptophan Metabolism		Result	20% 40% 60% 80%	Reference
(P) Tryptophan	<i>Tryptophan hydroxylase + BH4</i>	40.7		36.9 - 87.1 nmol/mL
5-Hydroxyindoleacetic Acid	<i>Aldehyde dehydrogenase + B3</i>	15.2		6.3 - 28.7 nmol/mg Creatinine
(P) Kynurenine	<i>Kynurenine mono-oxygenase (KMO) + B2</i>	4.7 H		< 4.4 nmol/mL
(P) KT Ratio	<i>Kynurenine / Tryptophan</i>	0.115 H		0.018 - 0.101
Hydroxykynurenine	<i>Kynureninase + B6</i>	<DL		< 12.1 nmol/mg Creatinine
Xanthurenic Acid	<i>Kynurenine transaminase + B6</i>	4.1		< 9.5 nmol/mg Creatinine
Anthranilic Acid	<i>Kynureninase + B6</i>	<DL		< 11.8 nmol/mg Creatinine
Picolinic Acid	<i>Non-enzymatic conversion</i>	<DL		< 4.0 nmol/mg Creatinine
Kynurenic Acid	<i>Kynurenine transaminase + B6</i>	24.6 H		2.1 - 18.5 nmol/mg Creatinine
Quinolinic Acid	<i>Non-enzymatic conversion</i>	88.0		9.0 - 105.7 nmol/mg Creatinine

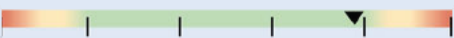
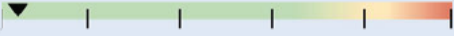
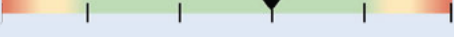
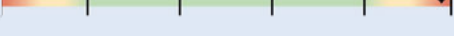
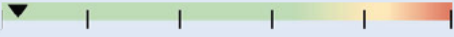
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2 - Amino Acid & Protein Metabolism

Methionine Metabolism		Result	20% 40% 60% 80%	Reference
(P) Methionine				
<i>Methionine adenosyltransferase</i>		25.9		12.1 - 38.5 nmol/mL
(P) Homocystine				
<i>Methionine synthase + B12</i>		<DL		< 2.2 nmol/mL
(P) Cystathionine				
<i>Cystathionine gamma-lyase + B6</i>		<DL		< 0.3 nmol/mL
(P) Sulfocysteine				
<i>Sulfite oxidase (SOX) + Mo</i>		<DL		< 1.9 nmol/mL
(P) Taurine				
<i>Hypotaurine dehydrogenase</i>		51.5		25.9 - 107.2 nmol/mL
(P) Cystine				
<i>Oxidation</i>		54.2 H		13.4 - 51.9 nmol/mL
α-Hydroxybutyric Acid				
<i>Dehydrogenase + B3</i>		106.1 H		10.6 - 62.6 nmol/mg Creatinine
Pyroglutamic Acid				
<i>5-Oxoprolinase</i>		157.1 H		< 72.7 nmol/mg Creatinine
Histidine Metabolism		Result	20% 40% 60% 80%	Reference
(P) Histidine				
<i>Histidine decarboxylase + B6</i>		80.1		61.2 - 104.7 nmol/mL
(P) 3-Methylhistidine				
<i>Myofibrillar Breakdown</i>		14.6		< 26.9 nmol/mL
(P) β-Alanine				
<i>Carnosine synthase</i>		<DL		< 2.2 nmol/mL

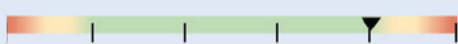
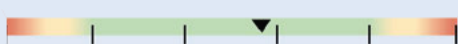
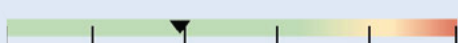
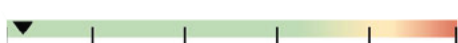
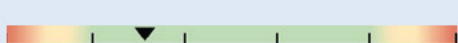
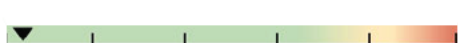
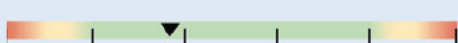
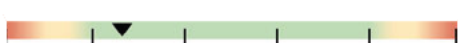
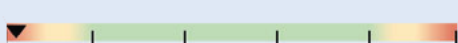
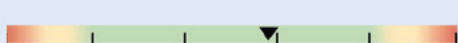
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2 - Amino Acid & Protein Metabolism

Threonine/Glycine/Serine		Result		Reference
(P) Threonine		141.7		51.4 - 184.9 nmol/mL
	<i>Glycine C-acetyltransferase + B6</i>			
(P) Glycine		389.1		154.2 - 582.7 nmol/mL
	<i>Glutathione synthetase</i>			
(P) Serine		122.2		54.2 - 207.4 nmol/mL
	<i>Cystathionine beta-synthase + B6, Iron</i>			
(P) Sarcosine		<DL		< 10.4 nmol/mL
	<i>Sarcosine dehydrogenase + B2</i>			
(P) Ethanolamine		8.2		< 16.9 nmol/mL
	<i>Ethanolamine kinase</i>			
(P) Phosphoethanolamine		<DL		< 8.1 nmol/mL
	<i>Phosphoethanolamine cytidyltransferase</i>			
Lysine Metabolism		Result		Reference
(P) Lysine		277.2		210.6 - 498.2 nmol/mL
	<i>alpha-Aminoadipic semialdehyde synthase</i>			
(P) α-Aminoadipic Acid		<DL		< 4.8 nmol/mL
	<i>Aminotransferase + B6</i>			
Glutaric Acid		1.3		< 4.5 nmol/mg Creatinine
	<i>Glutaryl-CoA dehydrogenase + B2</i>			
Glutamate & Aspartate		Result		Reference
(P) Glutamine		683.2		352.4 - 1017.1 nmol/mL
	<i>Glutaminase</i>			
(P) Glutamic Acid		59.6		38.3 - 251.2 nmol/mL
	<i>Glutamate cysteine ligase</i>			
(P) Glutamine / Glutamate Ratio		0.087 L		2.1 - 21.7
	<i>Glutaminase</i>			
(P) Asparagine		33.0		15.6 - 62.7 nmol/mL
	<i>Asparaginase</i>			
(P) Aspartic Acid		11.4		5.4 - 21.5 nmol/mL
	<i>Asparagine synthase</i>			

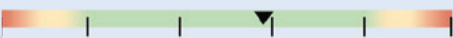
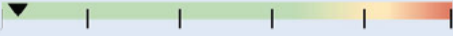
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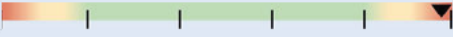
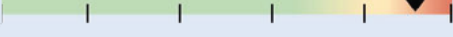
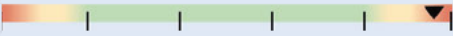
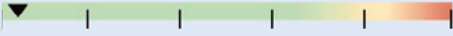
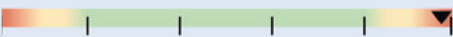
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2 - Amino Acid & Protein Metabolism

Collagen Catabolism		Result	20% 40% 60% 80%	Reference
(P) Proline	Prolyl hydroxylase + Vitamin C	223.4		117.2 - 411.9 nmol/mL
(P) Hydroxyproline	4-Hydroxyproline oxidase	9.3		< 30.6 nmol/mL
(P) Glycylproline	Dipeptide of Glycine + Proline	<DL		< 4.1 nmol/mL

3 - Nutrition

B-Complex (B1, B2, B3, B5, LA)		Result	20% 40% 60% 80%	Reference
Branched Chain Alpha-Keto Organic Acids	Branched-chain keto acid dehydrogenase + B1, B2, B3, B5, LA	84.2 H		0.8 - 35.8 nmol/mg Creatinine
α-Ketoglutaric Acid	α-Ketoglutarate dehydrogenase + B1, B2, B3, B5, LA	30.6		< 157.2 nmol/mg Creatinine
Pyruvic Acid	Pyruvate dehydrogenase + B1, B2, B3, B5, LA	38.1		< 47.2 nmol/mg Creatinine
Vitamin B-12		Result	20% 40% 60% 80%	Reference
Methylmalonic Acid	Methylmalonyl-CoA mutase + B12	22.6		2.7 - 25.9 nmol/mg Creatinine
Folate		Result	20% 40% 60% 80%	Reference
Formiminoglutamic Acid	Glutamate formimino-transferase + Folate	0.1		< 0.4 nmol/mg Creatinine
Vitamin B6		Result	20% 40% 60% 80%	Reference
Pyridoxic Acid	Aldehyde oxidase	<DL		< 111.9 nmol/mg Creatinine
Xanthurenic Acid	Kynurenine transaminase + B6	4.1		< 9.5 nmol/mg Creatinine
Biotin		Result	20% 40% 60% 80%	Reference
β-Hydroxyisovaleric Acid	Methylcrotonyl-CoA carboxylase + Biotin	446.5 H		25.1 - 223.4 nmol/mg Creatinine

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3 - Nutrition

Plant Components		Result	20% 40% 60% 80%	Reference
Quercetin		8.4		> 2.7 nmol/mg Creatinine
<i>Polyphenol: Flavonoid</i>				
Tartaric Acid		7.8		> 1.8 nmol/mg Creatinine
<i>Plant component</i>				
Meat intake		Result	20% 40% 60% 80%	Reference
1-Methylhistidine		16.9 H		< 16.0 nmol/mL
<i>Dietary meat & fish</i>				
Carnosine		3.1 H		< 2.7 nmol/mL
<i>Carnosinase</i>				
Anserine		<DL		< 18.4 nmol/mL
<i>Anserinase</i>				
Sugar Intake		Result	20% 40% 60% 80%	Reference
Fructose		12.0 H		0.1 - 9.2 nmol/mg Creatinine
<i>Fructokinase</i>				

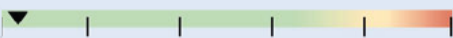
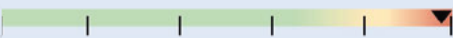
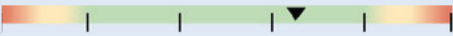
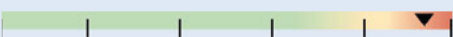
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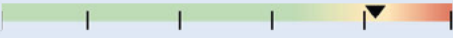
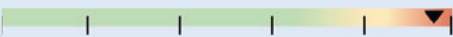
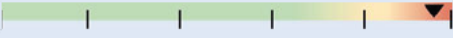
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4 - Stress & Mood

Neurotransmitter		Result	20% 40% 60% 80%	Reference
(P) γ-Aminobutyric Acid <i>gamma-Aminobutyric acid aminotransferase + B6</i>		<DL		< 3.9 nmol/mL
Catecholamine Turnover		Result	20% 40% 60% 80%	Reference
Homovanillic Acid <i>COMT + magnesium & monoamine oxidase + B2</i>		40.9 H		< 10.3 nmol/mg Creatinine
Vannilylmandelic Acid <i>Monoamine oxidase + B2</i>		19.4		4.8 - 21.4 nmol/mg Creatinine
Serotonin Turnover		Result	20% 40% 60% 80%	Reference
5-Hydroxyindoleacetic Acid <i>Aldehyde dehydrogenase + B3</i>		15.2		6.3 - 28.7 nmol/mg Creatinine
Steroid Hormone		Result	20% 40% 60% 80%	Reference
Cortisol <i>11-beta-Hydroxysteroid dehydrogenase + B3</i>		70.2		< 82.0 mcg/g Creatinine

5 - Toxic Impacts

Oxidative Damage		Result	20% 40% 60% 80%	Reference
8-Hydroxy-2'-deoxyguanosine <i>DNA oxidation</i>		4.3		< 8.4 nmol/mg Creatinine
Toxins		Result	20% 40% 60% 80%	Reference
2-Methylhippuric Acid <i>Xylene exposure</i>		1.8		< 2.1 nmol/mg Creatinine
Mandelic Acid <i>Styrene exposure</i>		2.1		< 4.6 nmol/mg Creatinine
Benzoylform <i>Styrene exposure</i>		4.6 H		< 4.3 nmol/mg Creatinine
Glucaric Acid <i>Glucuronic Acid Pathway</i>		12.1		3.6 - 25.8 nmol/mg Creatinine

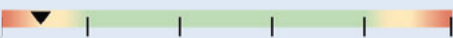
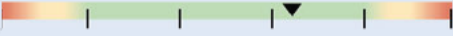
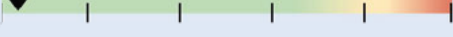
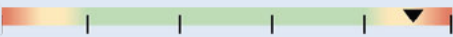
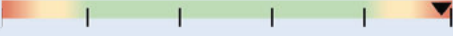
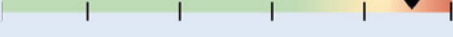
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5 - Toxic Impacts

Urea Cycle		Result	20% 40% 60% 80%	Reference
(P) Arginine	Arginase & Nitric oxide synthase	44.4		36.9 - 112.2 nmol/mL
(P) Citrulline	Argininosuccinate synthase	16.2		13.8 - 59.7 nmol/mL
(P) Ornithine	Ornithine transcarbamylase	82.3		39.0 - 132.1 nmol/mL
(P) Homocitrulline	Argininosuccinate synthase	<DL		< 4.8 nmol/mL
(P) Arginosuccinic Acid	Argininosuccinate lyase	<DL		< 14.2 nmol/mL
Kidney Impacts		Result	20% 40% 60% 80%	Reference
Orotic Acid	Uridine monophosphate synthase	4.3		0.7 - 6.0 nmol/mg Creatinine
Microalbumin	Blood protein	59.4		< 130.4 mcg/mg Creatinine
Phosphate	Charged particle (ion)	197.5 H		11.2 - 192.4 mg/dL
Creatinine	Creatine breakdown	95.4		29.3 - 296.8 mg/dL
Oxalic Acid	Divalent metallic cations	1048.2		< 1532.5 nmol/mg Creatinine

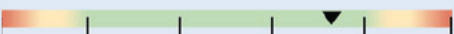
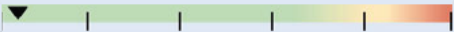
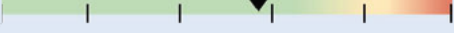
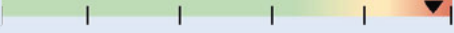
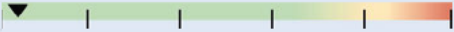
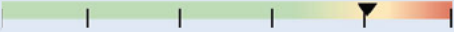
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6 - Microbial Metabolites

Amino Acid Microbial Metabolites		Result	20% 40% 60% 80%	Reference
4-Hydroxyphenylacetic Acid		276.0		85.8 - 902.3 nmol/mg Creatinine
<i>Disordered tyrosine metabolism</i>				
Indoleacetic Acid		2.1		< 13.7 nmol/mg Creatinine
<i>Disordered tryptophan metabolism</i>				
Polyphenols Microbial Metabolites		Result	20% 40% 60% 80%	Reference
3,4-Dihydroxyhydrocinnamic Acid		<DL		< 1490.3 nmol/mg Creatinine
<i>Polyphenol metabolite</i>				
3,5-Dihydroxybenzoic Acid		111.5		< 277.1 nmol/mg Creatinine
<i>Microbial metabolite</i>				
4-Hydroxybenzoic Acid		4.1		< 14.9 nmol/mg Creatinine
<i>Hydroxybenzoic acid derivative</i>				
Benzoic Acid		<DL		< 488.0 nmol/mg Creatinine
<i>Glycine N-benzoyltransferase</i>				
Hippuric Acid		290.8		< 291.9 nmol/mg Creatinine
<i>Glycine conjugate of benzoate</i>				
Isoflavone microbial Metabolites		Result	20% 40% 60% 80%	Reference
Equol		<DL		< 12.8 nmol/mg Creatinine
<i>Isoflavone metabolite</i>				
Fungal Assessment		Result	20% 40% 60% 80%	Reference
Arabinitol		4.4		< 9.0 nmol/mg Creatinine
<i>Dehydrogenase</i>				

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PERSONALIZED METABOLOMIC RECOMMENDATIONS

Note: Nutrient supplementation is up to the treating clinician's discretion with full understanding of the patient's medical history and current clinical condition.

MICRONUTRIENTS	Support Required	Recommendations	Food Sources
B-Complex	None	No Additional Support	Mixed diet
Thiamin (B1)	Moderate	20 mg	Rice, wheat germ, lentils, peas, pork, whole wheat bread, spinach
Riboflavin (B2)	None	1.3 mg*	Milk, almonds, eggs, salmon, chicken, broccoli, spinach
Niacin (B3)	None	16 mg*	Chicken, tuna, turkey, cereal, peanuts, lentils, coffee
Cobalamine (B12)	None	2.4 mcg*	Clams, mussels, mackerel, crab, beef, salmon, milk, eggs
Folate (B9)	None	400 mcg DFE*	Lentils, garbanzo beans, spinach, asparagus, lima beans, orange juice
Biotin (B7)	High	1000 mcg	Eggs, liver, salmon, avocado, raspberries, cauliflower, bread
CoQ10	Moderate	60+ mg	Beef, herring, chicken, canola oil, Rainbow trout, peanuts, pistachio nuts, broccoli
Magnesium	None	420 mg*	Beef, pork, milk, cod, chicken, avocado
Carnitine	None	10+ mg	Beef, pork, milk, cod, chicken, avocado
Copper	None	0.9 mcg	Eastern oysters, crab meat, clams, cashews, sunflowers, hazelnuts, almonds

* DV or Daily Values, are the recommended amounts of nutrients per day for a healthy, non-deficient adult.

PROTEIN	Findings	Suggested Recommendation
Phenylalanine	Adequate	No Additional Support
Isoleucine/allo-Isoleucine	High	Assess protein intake; consider metabolic conditions and BMI; check B6 level and alpha-ketoglutaric acid levels
Leucine	High	Assess protein intake; evaluate metabolic conditions; check B6 and alpha-ketoglutaric acid
Valine	High	Assess protein intake; consider metabolic conditions and BMI; check B6 level and alpha-ketoglutaric acid levels
Tryptophan	Adequate	No Additional Support
Methionine	Adequate	No Additional Support
Threonine	Adequate	No Additional Support
Lysine	Adequate	No Additional Support
Histidine	Adequate	No Additional Support
Arginine	Adequate	No Additional Support
Glycine	Adequate	No Additional Support
Taurine	Adequate	No Additional Support

ADDITIONAL SUPPORT	Support Required	Suggested Recommendation
Glutathione Need	None	No Additional Support
Inflammation	None	No Additional Support
Liver Parameters	None	No Additional Support
Kidney Parameters	None	No Additional Support