

5894 Shiloh Rd, Ste 101 | Alpharetta GA 30005 877.485.5336 Patient: Ima Sample Collected: 11/5/2021 DOB: 11/4/2021 Sex: Male Accession: OMXTest04 Received: 11/6/2021 Completed: 5/10/2022 Ordered by: Diane Farhi



METHODOLOGY: LC-MS/MS - Amino Acids 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.

0 %

0 %

METABOLOMIC SIGNATURE

Identifying Impact of Functional Categories



Subcategory

Meat intake

Subcategory

Neurotransmitter

Identifying Impact of Subcategories

Subcategory

Glycolysis

Subcategory

Phenylalanine Metabolism

Branched-Chain Amino Acids Tryptophan Metabolism Methionine Metabolism Histidine Metabolism Threonine/Glycine/Serine Lysine Metabolism Glutamate & Aspartate Collagen Catabolism

(2) Amino Acid & Protein Metabolism

(1) Metabolic Processing

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.

3 Nutrition

4 Stress & Mood

0 %

6 %

 REFERENCE RANGE

 0-20%
 21-60%
 61-100%

 MINIMAL
 MODERATE
 HIGH

 (5)
 Toxic Impacts
 0 %

 Subcategory

 Urea Cycle

PERCENT OF MARKERS BEYOND THE

Patient: Ima Sample

Accession: OMXTest04



1 - Metabolic Processing								
Glycolysis	Result	ı	20%	40%	60%	80%		Reference
P Alanine Alanine transaminase + B6	461.0	-	I	•	I	- 1		271.5 - 730.0 nmol/mL
2 - Amino A	cid & Pi	rotein	Meta	bolism	l			
Phenylalanine Metabolism	Result	ı	20%	40%	60%	80%		Reference
P Phenylalanine Phenylalanine hydroxylase + BH4	39.3		▼	I	1	I		31.7 - 71.0 nmol/mL
Tyrosine Tyrosine hydroxylase + BH4	47.6	F	I	•		I		27.8 - 84.5 nmol/mL
Branched-Chain Amino Acids	Result	ı	20%	40%	60%	80%		Reference
P Total Branched Chain Amino Acids Branched-chain amino acid transaminase + B6	258.5			I	I	I		211.9 - 577.3 nmol/mL
P Valine Branched-chain amino acid transaminase + B6	154.8		▼	I	I	I		109.3 - 283.0 nmol/mL
P Isoleucine/allo-Isoleucine Branched-chain amino acid transaminase + B6	34.8 L		I	I	I	I		35.5 - 112.4 nmol/mL
P Leucine Branched-chain amino acid transaminase + B6	69.0		1	1	1	1		57.1 - 187.5 nmol/mL
Tryptophan Metabolism	Result	ı	20%	40%	60%	80%		Reference
P Tryptophan Tryptophan hydroxylase + BH4	51.3	-	I	٩	I	I		36.9 - 87.1 nmol/mL
EXAMPLE 7 Kynurenine <i>Kynurenine mono-oxygenase (KMO) + B2</i>	4.3	-	I	I	1	1	•	< 4.4 nmol/mL
P KT Ratio Kynurenine / Tryptophan	0.083	-	I	I	I	1	•	0.018 - 0.101

KEY: < dl = Results below detection limit.

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2 - Amino Acid & Protein Metabolism							
Methionine Metabolism	Result	L	20%	40%	60%	80%	- Reference
Methionine Methionine adenosyltransferase	25.9	-	I	I	I	▼I	12.1 - 38.5 nmol/mL
P Homocystine Methionine synthase + B12	<dl< th=""><th>▼</th><th>I</th><th>I</th><th>I</th><th>I</th><th>< 2.2 nmol/mL</th></dl<>	▼	I	I	I	I	< 2.2 nmol/mL
Cystathionine Cystathionine gamm-lyase + B6	<dl< th=""><th>▼</th><th>I</th><th>I</th><th>I</th><th>T</th><th>< 0.3 nmol/mL</th></dl<>	▼	I	I	I	T	< 0.3 nmol/mL
Sulfocysteine Sulfite oxidase (SOX) + Mo	<dl< th=""><th>▼</th><th>I</th><th>- 1</th><th>I</th><th>I</th><th>< 1.4 nmol/mL</th></dl<>	▼	I	- 1	I	I	< 1.4 nmol/mL
P Taurine Hypotaurine dehydrogenase	51.5	-	I	I	Y	-	25.9 - 107.2 nmol/mL
P Cystine Oxidation	37.7	ŀ	I	I	I	1	13.4 - 51.9 nmol/mL
Histidine Metabolism	Result	ı	20%	40%	60%	80%	Reference
Histidine Histidine decarboxylase + B6	80.1	-	I	1	• I	1	61.2 - 104.7 nmol/mL
P 3-Methylhistidine Myofibrillar Breakdown	14.6	1	I	1	I	▼	< 26.9 nmol/mL
P β-Alanine Carnosine synthase	<dl< th=""><th>▼</th><th>I</th><th>I</th><th>I</th><th>-</th><th>< 0.7 nmol/mL</th></dl<>	▼	I	I	I	-	< 0.7 nmol/mL

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	2 - Amino Acid & Protein Metabolism								
	Threonine/Glycine/Serine	Result	ı	20%	40%	60%	80%		Reference
P	Threonine Glycine C-acetyltransferase + B6	141.7	-	I	I	I	Y	٩	51.4 - 184.9 nmol/mL
P	Glycine Glutathione synthetase	389.1		I	I	I			154.2 - 582.7 nmol/mL
P	Serine Cystathionine beta-synthase + B6, Iron	122.2	-	I	I	•	- 1		54.2 - 207.4 nmol/mL
P	Sarcosine Sarcosine dehydrogenase + B2	<dl< th=""><td>▼</td><td>1</td><td>I</td><td>I</td><td>1</td><td></td><td>< 10.4 nmol/mL</td></dl<>	▼	1	I	I	1		< 10.4 nmol/mL
P	Ethanolamine Ethanolamine kinase	8.2	I	I	٩	I	1		< 16.9 nmol/mL
P	Phosphoethanolamine Phosphoethanolamine cytidylyltransferase	<dl< th=""><td>▼</td><td>1</td><td>1</td><td>1</td><td>1</td><td>•</td><td>< 6.3 nmol/mL</td></dl<>	▼	1	1	1	1	•	< 6.3 nmol/mL
	Lysine Metabolism	Result	ı	20%	40%	60%	80%		Reference
P	Lysine alpha-Aminoadipic semialdehyde synthase	277.2		I	▼	I	1	٩	210.6 - 498.2 nmol/mL
P	α-Aminoadipic Acid Aminotransferase + B6	<dl< th=""><td>▼</td><td>I</td><td>I</td><td>I</td><td>1</td><td></td><td>< 4.8 nmol/mL</td></dl<>	▼	I	I	I	1		< 4.8 nmol/mL
	Glutamate & Aspartate	Result	ı	20%	40%	60%	80%		Reference
P	Glutamine Glutaminase	683.2	-	I	▼	I	- 1	٩	352.4 - 1017.1 nmol/mL
P	Glutamic Acid Glutamate cysteine ligase	59.6	-	▼	I	I	1		38.3 - 251.2 nmol/mL
P	Glutamine / Glutamate Ratio Glutaminase	0.087 L		I	I	I	- 1		2.1 - 21.7
P	Asparagine Asparaginase	33.0	ŀ	I	I				15.6 - 62.7 nmol/mL
P	Aspartic Acid Asparagine synthase	11.4	-	I	I	▼j	-		5.4 - 21.5 nmol/mL

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2 - Amino Acid & Protein Metabolism							
Collagen Catabolism	Result	Ļ	20%	40%	60%	80%	⊣ Reference
Proline Prolyl hydroxylase + Vitamin C	223.4	-	I	I	▼	1	117.2 - 411.9 nmol/mL
Hydroxyproline 4-Hydroxyproline oxidase	9.3	I	1	I	Y	1	< 30.6 nmol/mL
Glycylproline Dipeptide of Glycine + Proline	<dl< td=""><td>▼</td><td>1</td><td>I</td><td>I</td><td>I</td><td>< 2.6 nmol/mL</td></dl<>	▼	1	I	I	I	< 2.6 nmol/mL

3 - Nutrition						
Meat intake	Result	20%	40%	60%	80%	Reference
P 1-Methylhistidine Dietary meat & fish	<dl< th=""><th> ▼ </th><th>I</th><th>I</th><th>1 1</th><th>< 16.0 nmol/mL</th></dl<>	▼	I	I	1 1	< 16.0 nmol/mL
P Carnosine Carnosinase	2.7		I	- 1		< 2.7 nmol/mL
P Anserine Anserinase	<dl< th=""><th> ▼ </th><th>I</th><th>I</th><th>1</th><th>< 18.4 nmol/mL</th></dl<>	▼	I	I	1	< 18.4 nmol/mL

4 - Stress & Mood							
Neurotransmitter	Result	·	20%	40%	60%	80%	Reference
γ-Aminobutyric Acid gamma-Aminobutyric acid aminotransferase + B6	<dl< td=""><td>▼</td><td>I</td><td>I</td><td>I</td><td> </td><td>< 1.5 nmol/mL</td></dl<>	▼	I	I	I		< 1.5 nmol/mL

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	5 - Toxic	Impac	cts				
Urea Cycle	Result	L	20%	40%	60%	80%	
P Arginine Arginase & Nitric oxide synthase	44.4	-	1	I	I	-	36.9 - 112.2 nmol/mL
P Citrulline Argininosuccinate synthase	16.2		I	I	I	1	13.8 - 59.7 nmol/mL
P Ornithine Ornithine transcarbamylase	82.3	-	I	I	•	1	39.0 - 132.1 nmol/mL
P Homocitrulline Argininosuccinate synthase	<dl< th=""><td>▼</td><td>I</td><td>I</td><td>I</td><td>1</td><td>< 3.4 nmol/mL</td></dl<>	▼	I	I	I	1	< 3.4 nmol/mL
P Arginosuccinic Acid Argininosuccinate lyase	<dl< th=""><td>▼</td><td>I</td><td>I</td><td>I</td><td>1</td><td>< 14.2 nmol/mL</td></dl<>	▼	I	I	I	1	< 14.2 nmol/mL

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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.

PROTEIN	Findings	Suggested Recommendation
Phenylalanine	Adequate	No Additional Support
Isoleucine/allo-Isoleucine	Low	Assess calorie and protein intake; evaluate digestion
Leucine	Adequate	No Additional Support
Valine	Adequate	No Additional Support
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
	-	