



NuEthix

FORMULATIONS

5208 ARBOR KNOLL LN INDEPENDENCE, KY 41051 • WWW.NUETHIX.COM

CERTIFICATE OF ANALYSIS

DATE: **04/22/2024**

Product: **ESSENTIAL ENERGY**
Product Code: **NU441**

Lot No: **2402238**
Serving Size: **18804.72 mg**
Manufacture Date: **03/2024**

PHYSICAL CHARACTERISTICS

TEST

Description/Appearance
Odor/ Flavor
Spectral Match

SPECIFICATION

White Of Off-White
Characteristic
Consistent With
Standard

RESULT

White
Characteristic
Consistent

METHOD

Organoleptic
Organoleptic
FT-IR

AMOUNT PER SERVING

INGREDIENT

BCAA 2:1:1

L-Leucine	NLT 2500mg	3403.06 mg	HPLC
L-Isoleucine	NLT 1250mg	1396.35 mg	HPLC
L-Valine	NLT 1250mg	1531.68 mg	HPLC

EAA

L-Lysine (As HCl)	NLT 1250mg	1312.5mg	PPCS [‡]
L-Threonine	NLT 900mg	945mg	PPCS [‡]
L-Histidine (As HCl)	NLT 100mg	105mg	PPCS [‡]
L-Tryptophan	NLT 100mg	105mg	PPCS [‡]
L-Phenylalanine	NLT 100mg	105mg	PPCS [‡]
L-Methionine	NLT 50mg	52.5mg	PPCS [‡]
L-Citrulline Malate 1:1	NLT 1500mg	1575mg	PPCS [‡]

Energy BHB Keto Salts

Sodium BHB	NLT 3000mg	3150mg	PPCS [‡]
Calcium BHB	NLT 1500mg	1575mg	PPCS [‡]

CONTAMINANTS

MICROBIOLOGICAL

Total Aerobic Plate Count	<10 ⁷ cfu/g	200 cfu/g	USP <61>
Total Yeast and Mold (Y&M)	<10 ⁵ cfu/g	<10 cfu/g	USP <61>
Enterobacteriaceae	<10 ⁴ cfu/g	<10 cfu/g	USP <62>
Salmonella spp.	Absent	Absent	USP <62>
E. Coli	Absent	Absent	USP <62>
Staphylococcus aureus	Absent	Absent	USP <62>

HEAVY METALS:

Mercury (2µg/day)	≤ 0.1064 ppm	0.0177 ppm	ICP/MS
Lead (8.8µg/day)	≤ 0.4680 ppm	0.0751 ppm	ICP/MS
Arsenic (10µg/day)	≤ 0.5318 ppm	0.0145 ppm	ICP/MS
Cadmium (4.1µg/day)	≤ 0.2180 ppm	0.0038 ppm	ICP/MS

[‡]In accordance with 21 CFR § 111.75 (c) or (d) ingredient is exempt from testing. Result is substantiated through component testing and/or examination; in-process testing, examination, and/or monitoring; and other aspects of the established Production and Process Control System (PPCS).