



NuEthix

FORMULATIONS

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

DATE: 08/07/2025

CERTIFICATE OF ANALYSIS

Product: **ESSENTIAL ENERGY**
Product code : **NU441**

Lot No: **2505093**
Serving Size : **18150.00 mg**
Manufacture Date: **07/2025**

PHYSICAL CHARACTERISTICS

TEST

Description/Appearance

Odor/ Flavor
Spectral Match

SPECIFICATION

White to Off White
w/Spots
Characteristic
Consistent With
Standard

RESULT

White w/Spots
Characteristic
Consistent

METHOD

Organoleptic
Organoleptic
FT-IR

AMOUNT PER SERVING

INGREDIENT

BCAA 2:1:1

L-Leucine

L-Isoleucine

L-Valine

EAA

L-Lysine (As HCl)

L-Threonine

L-Histidine (As HCl)

L-Tryptophan

L-Phenylalanine

L-Methionine

L-Citrulline Malate 1:1

Energy BHB Keto Salts

Sodium BHB

Calcium BHB

Beta Hydroxy Butyrate (BHB)

2.5gm - 3.13gm

1.25gm - 1.56gm

1.25gm - 1.56gm

1.25gm - 1.5gm

900mg - 1080mg

100mg - 120mg

100mg - 120mg

100mg - 125mg

50mg - 60mg

1.5gm - 1.88gm

4.5gm - 5.4gm

495mg - 643.5mg

240mg - 312mg

3660mg - 4575mg

2.792gm

1.271gm

1.408gm

1.31gm

945mg

105mg

119.08mg

118.39mg

52.5mg

1.575gm

4.5gm

519.75mg

252mg

3843mg

HPLC

HPLC

HPLC

PPCS[‡]

PPCS[‡]

PPCS[‡]

HPLC

HPLC

PPCS[‡]

PPCS[‡]

PPCS[‡]

PPCS[‡]

PPCS[‡]

PPCS[‡]

CONTAMINANTS

MICROBIOLOGICAL

Total Aerobic Plate Count

Total Yeast and Mold (Y&M)

Enterobacteriaceae

Salmonella spp.

E. Coli

Staphylococcus aureus

Pseudomonas aeruginosa

<10⁷ cfu/g

<10⁵ cfu/g

<10⁴ cfu/g

Absent

Absent

Absent

Absent

100 cfu/g

<10 cfu/g

<10 cfu/g

Absent

Absent

Absent

Absent

USP <61>

USP <61>

USP <62>

USP <62>

USP <62>

USP <62>

USP <62>

HEAVY METALS:

Mercury (Hg)

Lead (Pb)

Arsenic (As)

Cadmium (Cd)

≤ 2µg/day

≤ 8.8µg/day

≤ 10µg/day

≤ 4.1µg/day

0.2632 mcg/day

0.3503 mcg/day

0.0967 mcg/day

<0.001 mcg/day

ICP/MS

ICP/MS

ICP/MS

ICP/MS

In accordance with 21CFR § 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).