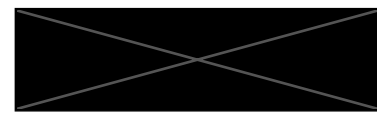
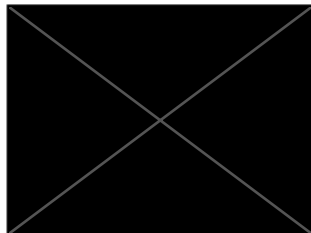


CERTIFICATE OF ANALYSIS



Product Name:



Batch Number: 0322003

Product Code:

Manufacturing Date: 03-Mar-2022

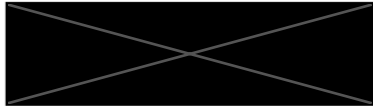
Quantity:

Expiration Date: N/a

Specification Number:

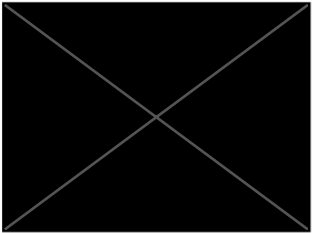
Serving Size: Two (2) Capsules

TEST NAME	TEST METHOD	SPECIFICATION	RESULTS
Appearance	Visual inspection	Dual-chamber, powder and liquid filled hard hydroxypropyl Methylcellulose capsule size 00. Pinkish powder with a light to dark yellow oil on the liquid side.	Complies
Average Weight	USP <2091> Weight Variation of Dietary Supplements	Conforms to USP <2091>	Complies
Weight Variation	USP <2091> Weight Variation of Dietary Supplements	Conforms to USP <2091>	Complies
Disintegration	USP <2040> Disintegration and Dissolution of Dietary Supplements	≤ 30 minutes	Complies
Vitamin D ₃ as Cholecalciferol, <i>Cladonia rangiferina</i>	HPLC ²	≥ 26.00 mcg/Serving	52.75 mcg/Serving size
Borage Oil containing Gamma Linolenic Acid (GLA)	AOCS ⁴	≥ 120.00 mg GLA/serving	121 mg/Serving size
Vitamin B5 as D-Calcium Pantothenate	HPLC ⁵	≥ 5.00 mg/serving	6.27 mg/Serving size
Vitamin B6 as Pyridoxine HCL	HPLC ⁶	≥ 1.30 mg/serving	1.91 mg/Serving size
Vitamin B12 as Methylcobalamin	HPLC ⁷	≥ 10.00 mcg /serving	13.2 mcg/Serving size
5-Hydroxytryptophan (from <i>Garcinia simplicifolia</i> seed extract)	HPLC ⁸	≥ 150.00 mg/serving	156 mg/Serving size
Selenium as Selenium glycinate	ICP-OES ⁹	≥ 56.00 mcg/serving	70.9 mcg/Serving size
Zinc as Zinc bisglycinate chelate	ICP-OES ¹⁰	≥ 8.00 mg/serving	9.66 mg/Serving size
AlphaWave [®] L-Theanine	HPLC ¹¹	≥ 200.00 mg/serving	219 mg/Serving size
Ashwagandha root extract, <i>Withania somnifera</i>	IPC ¹²	≥ 125.00 mg (1.5% Withanolides)/serving	Complies
Natural Red as Radish Extract	IPC ³	~ 80.00 mg/serving ³	Complies
Nu-MAG [®] natural alternative to magnesium stearate	IPC ³	~ 10.00 mg/serving ³	Complies
Nu-FLOW [®] , concentrate of silica from rice	IPC ³	~ 15.00 mg/serving ³	Complies
Total Aerobic Microbial Count	USP <2021> Microbial Enumeration Tests – Nutritional and Dietary Supplements	≤ 10,000 cfu/g	< 100 cfu/g
Total Combined Molds and Yeasts Count	USP <2021> Microbial Enumeration Tests – Nutritional and Dietary Supplements	≤ 1,000 cfu/g	< 10 cfu/g
Escherichia coli	USP <2022> Microbial Procedures for Absence of Specified Microorganisms – Nutritional and Dietary Supplements	Absent	Absent



CERTIFICATE OF ANALYSIS

Product Name:
Product Code:
Quantity:
Specification Number:



Batch Number: 0322003
Manufacturing Date: 03-Mar-2022
Expiration Date: N/a
Serving Size: Two (2) Capsules

Salmonella spp.	USP <2022> Microbial Procedures for Absence of Specified Microorganisms – Nutritional and Dietary Supplements	Absent	Absent
Staphylococcus aureus	USP <2022> Microbial Procedures for Absence of Specified Microorganisms – Nutritional and Dietary Supplements	Absent	Absent
Lead	USP <2232> Elemental Contaminants in Dietary Supplements	≤ 0.5 ppm	0.0614 ppm
Arsenic	USP <2232> Elemental Contaminants in Dietary Supplements	≤ 1.5 ppm	0.0265 ppm
Cadmium	USP <2232> Elemental Contaminants in Dietary Supplements	≤ 0.5 ppm	0.0193 ppm
Mercury	USP <2232> Elemental Contaminants in Dietary Supplements	≤ 1.5 ppm	<0.00500 ppm

References:

- ¹ USP 42-NF 37
- ² High-performance liquid chromatography (HPLC): Vitamin D3 tested on raw material at manufacturer specifications of 340,000 - 500,000 IU/g.
- ³ Specifications from raw material blends – achieved through blending in process controls and formulation.
- ⁴ Capillary gas-liquid chromatography (GLC) (AOCS Ce 1e-91): GLA content tested on raw material at manufacturer specification of NLT 20%.
- ⁵ High-performance liquid chromatography (HPLC): Calcium Pantothenate tested on raw material at manufacturer specifications of 98.0 – 102.0%
- ⁶ High-performance liquid chromatography (HPLC): Vitamin B6 (Pyridoxine HCL) tested on raw material at manufacturer specifications of 98.0 – 102.0%
- ⁷ High-performance liquid chromatography (HPLC): Vitamin B12 (Methylcobalamin) tested on raw material at manufacturer specifications of 1.0 – 1.2%
- ⁸ High-performance liquid chromatography (HPLC): 5-HTP tested on raw material at manufacturer specifications of NLT 99.0%
- ⁹ Inductively coupled plasma - optical emission spectrometry (ICP-OES): Selenium tested on raw material specifications of 1.00 – 1.25%
- ¹⁰ Inductively coupled plasma - optical emission spectrometry (ICP-OES): Zinc tested on raw material specifications of NLT 20.0%
- ¹¹ High-performance liquid chromatography (HPLC): L-theanine tested on raw material at manufacturer specifications of NLT 98.0%
- ¹² In process control (IPC): Withanolides content tested on raw material at manufacturer specifications of NLT 1.5%, Specifications achieved through blending in process controls, formulation and quantified by input.

Approved by Joseph Rosewski
(Quality Assurance)

Date 20-Apr-2022