



# NuEthix

FORMULATIONS

DATE: 11/16/2023

## CERTIFICATE OF ANALYSIS

Product: **THYRO-BOOST ESSENTIALS VEGGIE CAPS**  
 Product code : **18445**  
 Prepared For: **NUETHIX FORMULATIONS**

Lot No: **2309004**  
 Serving Size : **1 Cap**  
 Manufacture Date: **09/2023**

### PHYSICAL CHARACTERISTICS

| <u>TEST</u>            | <u>SPECIFICATION</u>          | <u>RESULT</u>   | <u>METHOD</u>   |
|------------------------|-------------------------------|-----------------|-----------------|
| Average Capsule Weight | 864mg - 955mg                 | 907 mg          | Balance Reading |
| Capsule Size           | "00"                          | "00"            | Organoleptic    |
| Disintegration         | ≤ 30 Min                      | 11 Mins         | USP <2040>      |
| Capsule Color          | Natural/Natural               | Natural/Natural | Organoleptic    |
| Capsule Type           | Hypromellose                  | Hypromellose    | Chemical Test   |
| Blend Color            | Beige to Tan Brown<br>w/Spots | Beige w/Spots   | Organoleptic    |

### AMOUNT PER SERVING

#### INGREDIENT

| <u>INGREDIENT</u>                                      | <u>SPECIFICATION</u> | <u>RESULT</u> | <u>METHOD</u> |
|--|----------------------|---------------|---------------|
| Vitamin A (As Retinyl Palmitate)                       | 300mcg - 645mcg      | 450mcg        | PPCS‡         |
| Vitamin C (From Magnesium Ascorbate)                   | 100mg - 160mg        | 124.44 mg     | Titration     |
| Vitamin D3 (As Cholecalciferol)                        | 8mcg - 17.2mcg       | 11.47mcg      | HPLC          |
| Vitamin E (As D-Alpha Tocopheryl Succinate)            | 2mg - 3.9mg          | 2.6mg         | PPCS‡         |
| Vitamin B2 (Riboflavin)                                | 5mg - 8.5mg          | 6.03 mg       | HPLC          |
| Vitamin B3 (As Niacinamide)                            | 10mg - 12.5mg        | 12mg          | PPCS‡         |
| Vitamin B6 (As Pyridoxine HCl)                         | 10mg - 17mg          | 12.68 mg      | HPLC          |
| Iodine (As Potassium Iodide On Dicalcium Phosphate)    | 75mcg - 135mcg       | 90mcg         | PPCS‡         |
| Magnesium (From Magnesium Ascorbate)                   | 13mg - 16.25mg       | 16.08mg       | ICP-OES       |
| Zinc (As Zinc Bisglycinate Chelate)                    | 5mg - 6.75mg         | 5.19mg        | ICP-OES       |
| Selenium (As L-Selenomethionine) On DCP                | 50mcg - 85mcg        | 55mcg         | PPCS‡         |
| L-Tyrosine   | 200mg - 250mg        | 210mg         | PPCS‡         |
| Rhodiola Rosea Root Extract 3% Rosavins 1% Salidroside | 133mg - 186.2mg      | 139.65mg      | PPCS‡         |
| Dry Mixed Tocopherols                                  | 45mg - 56.25mg       | 47.25mg       | PPCS‡         |

### CONTAMINANTS

#### MICROBIOLOGICAL

| <u>MICROBIOLOGICAL</u>     | <u>SPECIFICATION</u>   | <u>RESULT</u> | <u>METHOD</u> |
|----------------------------|------------------------|---------------|---------------|
| Total Aerobic Plate Count  | <10 <sup>4</sup> cfu/g | 200 cfu/g     | USP<61>       |
| Total Yeast and Mold (Y&M) | <10 <sup>3</sup> cfu/g | <10 cfu/g     | USP<61>       |
| Enterobacteriaceae         | <10 <sup>2</sup> 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>       |

‡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).



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**HEAVY METALS:**

|                     |              |            |        |
|---------------------|--------------|------------|--------|
| Mercury (2µg/day)   | ≤ 0.7716 ppm | 0.0147 ppm | ICP/MS |
| Lead (8.8µg/day)    | ≤ 3.3951 ppm | 0.0295 ppm | ICP/MS |
| Arsenic (10µg/day)  | ≤ 3.8580 ppm | 0.0273 ppm | ICP/MS |
| Cadmium (4.1µg/day) | ≤ 1.5818 ppm | 0.0113 ppm | ICP/MS |

**GLUTEN**

|            |         |       |
|------------|---------|-------|
| NMT 20 ppm | < 4 ppm | ELISA |
|------------|---------|-------|

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**QUALITY CONTROL**  
**BACTOLAC PHARMACEUTICAL, INC.**

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