

Title: **Perm A Vite Powder, 238 g**

Allergy Research Group / NutriCology

Document No.: 72490CA

Revision: 009

**Certificate of Analysis**

|                                 |  |                         |         |
|---------------------------------|--|-------------------------|---------|
| <b>Part Number</b>              | 72490  |                         |         |
| <b>Lot Number</b>               | 176511   |                         |         |
| <b>Product Count &amp; Form</b> | 238 grams powder                                       |                         |         |
| <b>Packaging, Closure</b>       | 20 oz. white HDPE wide mouth jar with white ribbed cap |                         |         |
| <b>Storage Condition</b>        | Room Temperature                                       | <b>Manufacture Date</b> | 10/2020 |
| <b>Shelf Life</b>               | 36 months  | <b>Expiration Date</b>  | 10/2023 |
| <b>Label Number, Size</b>       | 72490L, L  |                         |         |
| <b>Retain Sample</b>            | 1 bottle total   |                         |         |

**ANALYSIS****Physical**

| Attribute            | Method / SOP | Specification               | Test Result |
|----------------------|--------------|-----------------------------|-------------|
| Product Appearance   | QC011        | Fine white powder           | Complies    |
| Product Odor / Taste | QC011        | Characteristic odor / taste | Complies    |

**Purity/Strength per 6.3 grams (1 tablespoon)**

| Active Ingredients                              | Label Claim | Release Limits            | Test Result                |
|---|-------------|---------------------------|----------------------------|
| MSM (Methylsulfonylmethane)                     | 100 mg      | 100- 150% of LC by GC-MS  | 100- 150% of LC by GC-MS*  |
| N-Acetyl Glucosamine                            | 300 mg      | 100 - 150% of LC by HPLC  | 100 - 150% of LC by HPLC*  |
| L-Glutamine                                     | 2 g         | 100 - 150% of LC by HPLC  | 325 mg/6.3 g               |
| Slippery Elm (bark) Powder                      | 200 mg      | 100 - 150% of LC by input | 100 - 150% of LC by input* |
| Stevia (leaves) Extract                         | 30 mg       | 100 - 150% of LC by input | 100 - 150% of LC by input  |
| Glandular Complex with Epithelial Growth Factor | 100 mg      | 100 - 150% of LC by input | 100 - 150% of LC by input* |
| Microcrystalline cellulose                      | 3 g         | 100-150% LC by input      | 100-150% LC by input*      |
| Zinc (zinc Carnosine)                           | 5 mg        | 100-150% LC by ICP-MS     | 5.80 mg/6.3g               |

\*Production and Process Control

**Identification \ Chemical \ Heavy Metals**


| Attribute       | Method / SOP                        | Specification     | Test Result   |
|-----------------|-------------------------------------|-------------------|---------------|
| Identity        | Bulk Certificate of Analysis Review | Approved          | Approved      |
| Identity        | Near Infrared Spectroscopy          | Matches Reference | Complies      |
| Arsenic         | ICP-MS per USP <2232>               | ≤ 15 mcg/day Ψ    | BQL           |
| Cadmium         | ICP-MS per USP <2232>               | ≤ 5 mcg/day Ψ     | BQL           |
| Mercury (total) | ICP-MS per USP <2232>               | ≤ 15 mcg/day Ψ    | 0.006 mcg/day |
| Lead            | ICP-MS per USP <2232>               | ≤ 10 mcg/day Ψ    | 0.151 mcg/day |

Ψ – Permitted Daily Exposure, \*Production and Process Control, BQL – Below Quantification Level

**Microbiology**

| Attribute             | Method / SOP       | Specification               | Test Result     |
|-----------------------|--------------------|-----------------------------|-----------------|
| Total Aerobic Count   | USP/ AOAC/ FDA BAM | ≤ 1 x 10 <sup>7</sup> CFU/g | 1,200,000 CFU/g |
| Total Yeast & Mold    | USP/ AOAC/ FDA BAM | ≤ 1 x 10 <sup>5</sup> CFU/g | 140 CFU/g       |
| Coliform              | USP/ AOAC/ FDA BAM | ≤ 1 x 10 <sup>4</sup> CFU/g | < 10 CFU/g      |
| Escherichia coli      | USP/ AOAC/ FDA BAM | None Detected               | None Detected   |
| Staphylococcus aureus | USP/ AOAC/ FDA BAM | None Detected               | None Detected   |
| Salmonella            | USP/ AOAC/ FDA BAM | None Detected               | None Detected   |

\*Production and Process Control

|   |   |                 |
|---|---|-----------------|
| Approval:  | Digitally signed by Kimberly Vennebush<br>Date: 2020.11.30 14:41:38 -07'00' | Date: 30NOV2020 |
|---|---|-----------------|

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## Test Certificate

Description: Perm A Vite Powder  
Sample ID: 82490  
Lot No: 176511  
Location:  
Received: 11/7/2020  
Completed: 11/17/2020

Client: Allergy Research Group  
2300 S Main St  
Salt Lake City, UT 84115

Lab No: 206126-01

| Analysis                      | Result    | Per Unit     | Specifications      | Method            |
|-------------------------------|-----------|--------------|---------------------|-------------------|
| Mercury                       | 0.001     | µg/g         | < 0.5 µg/g          | ICP-MS USP <730>  |
| Lead                          | 0.024     | µg/g         | < 0.5 µg/g          | ICP-MS USP <730>  |
| Arsenic                       | <0.001    | µg/g         | < 0.5 µg/g          | ICP-MS USP <730>  |
| Cadmium                       | <0.001    | µg/g         | < 0.5 µg/g          | ICP-MS USP <730>  |
| Total Aerobic Microbial Count | 1,200,000 | CFU/g        | <= 10,000,000 CFU/g | USP <2021>        |
| Coliform                      | < 10      | CFU/g        | <= 10,000 CFU/g     | AOAC 991.14       |
| E.Coli                        | Absent    | per 10 grams | Absent              | USP <2022>        |
| Staphylococcus aureus         | Absent    | per 10 grams | Absent              | USP <2022>        |
| Salmonella                    | Absent    | per 10 grams | Absent              | USP <2022>        |
| Total Yeast & Mold            | 140       | CFU/g        | <= 100,000 CFU/g    | USP <2021>        |
| Yeast *                       | < 10      | CFU/g        | <= 100,000 CFU/g    | USP <2021>        |
| Mold *                        | 140       | CFU/g        | <= 100,000 CFU/g    | USP <2021>        |
| Zinc                          | 5.80      | mg/6.3 g     | >= 5 mg/6.3 g       | ICP-OES USP <730> |

\* For informational purposes only.

**THESE RESULTS APPLY ONLY TO THE SAMPLE SUBMITTED AND NOT TO THE PRODUCT FROM WHICH IT WAS TAKEN. THESE RESULTS ARE PROVIDED ONLY FOR THE BENEFIT OF CLIENT, WITHOUT REPRESENTATION OR WARRANTY OF ANY KIND, EXCEPT FOR THE EXPRESS LIMITED WARRANTY PROVIDED SOLELY TO CLIENT IN ADVANCED LABORATORIES' TERMS OF SERVICE.**

**THIS CERTIFICATE SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT WRITTEN APPROVAL FROM ADVANCED LABORATORIES.**

Results Approved By:

  
Kristina Noll - Quality Technician

Dated:

11/17/2020

Printed: 11/17/2020 4:37:57 PM





# Micro Quality Labs, Inc.

Specializing in Pharmaceutical, Dietary Supplements, Toys and Cosmetics Testing

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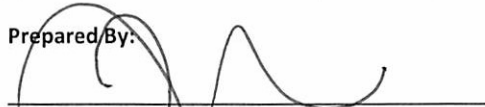
## ANALYTICAL/CHEMICAL CERTIFICATE OF ANALYSIS

**Sample Name:** PERM A VITE POWDER  
**Product Code:** 82490  
**Batch/Lot:** 176511  
**MQL Accession:** 201113-0173

**PO#:** 78223-1106  
**Sample Description:** FG  
**Rush:** N/A  
**Received Date:** 11/13/20

| Test Requested:        | Test Method:         | Specification:   | Results:     |
|------------------------|----------------------|------------------|--------------|
| N-Acetyl-D-Glucosamine | MLTM-0236<br>By HPLC | NLT 300 mg/6.3 g | 325 mg/6.3 g |

Prepared By:

  
Diana Zavala/Document Control Specialist

NOV 24 2020

11/24/20

Reviewed By:

  
Esmeralda Arellano/QA Assistant

NOV 24 2020

11/24/20

*The aforementioned results on this report are representative of the samples submitted and may not be indicative of the entire manufacture, batch, and/or lot. Applicable current GMP's shall always be used when sampling. GLP's shall always be practiced by Micro Quality Labs to ensure the most accurate results.*

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