

| | |
|---|---------------|
| Title: Selenium High Dose Drops, 15 mL (0.5 fl. Oz.) | |
| Allergy Research Group* / NutriCology* | |
| Document No.: 57380CA | Revision: 001 |

Certificate of Analysis

| | | | |
|---------------------------------|---------------------------|-----------------|-------|
| Part Number | 57380 | | |
| Lot Number | 15670 | | |
| Product Count & Form | 0.5 fl. oz (15 ml) liquid | | |
| Packaging, Closure | 20 ml amber glass bottle | | |
| Storage Condition | Room Temperature | | |
| Shelf Life | 36 months | Expiration Date | 09/21 |
| Label Number, Size | 57380L, O | | |
| Retain Sample | 2 bottles total | | |

ANALYSIS

Physical

| Attribute | Method / SOP | Specification | Test Result |
|---------------|--------------|---------------|-------------|
| Product Color | SOP 515 | Clear | Complies |
| Product Taste | SOP 515 | Tasteless | Complies |

Purity/Strength per 1 drop (0.05 mL)

| Active Ingredients | Label Claim | Release Limits | Test Result |
|-------------------------------|--------------------------|---------------------------|--------------|
| Selenium (as Sodium Selenite) | 100 µg / 0.05 mL serving | 100-150% LC By ICP-OES | 125 mcg/drop |

*Production and Process Control

Identification \ Chemical \ Heavy Metals

| Attribute | Method / SOP | Specification | Test Result |
|---------------------|-------------------------------------|----------------|-------------|
| Identity | Bulk Certificate of Analysis Review | Approved | Approved |
| Arsenic (inorganic) | 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 | BQL |
| Lead | ICP-MS per USP <2232> | ≤ 10 mcg/day Ψ | BQL |

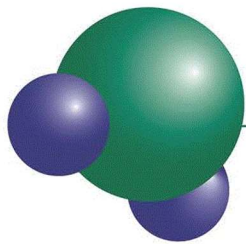
*Production and Process Control, Ψ – Permitted Daily Exposure

Microbiology

| Attribute | Method / SOP | Specification | Test Result |
|-----------------------|--------------------|-----------------------------|---------------|
| Total Aerobic Count | USP/ AOAC/ FDA BAM | ≤ 1 x 10 ³ CFU/g | <10 CFU/g |
| Total Yeast & Mold | USP/ AOAC/ FDA BAM | ≤ 1 x 10 ² CFU/g | <10 CFU/g |
| Coliform | USP/ AOAC/ FDA BAM | ≤ 1 x 10 ² 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:  | Date: 11/15/18 |
|---|----------------|



chemical solutions ltd.[®]

trace elemental analysis

Analytical Report

October 10, 2018

Tuyen Luong
Allergy Research Group/NutriCology
2300 North Loop Road
Alameda, CA 94502

Page 1 of 1
WO Number: W18J0116

Client: Allergy Research Group-QC
Client #: A5537-T
Sample Type: Drop
Collector: Client

Customer PO: MH10022018
Date Received: 10/3/2018
Date Completed: 10/10/2018
Discard Date: 10/24/2018

CSL#: 18J0249 Selenium Drops - Lot#: 87380/15670

| Parameter | Result | PQL | Method | Date | Analyst |
|-----------|-------------|-------|--------|----------|---------|
| Arsenic | <0.050 ug/g | 0.050 | ICP MS | 10/04/18 | ARB |
| Cadmium | <0.050 ug/g | 0.050 | ICP MS | 10/04/18 | ARB |
| Lead | <0.050 ug/g | 0.050 | ICP MS | 10/03/18 | KMS |
| Mercury | <0.050 ug/g | 0.050 | ICP MS | 10/04/18 | ARB |
| Selenium | 2,500 ug/g | 30 | ICP MS | 10/09/18 | HG |

CSL#: 18J0249

| Parameter | Result | Serving Size | Unit Weight* | Specification |
|-------------------------|-------------|--------------|--------------|---------------|
| Arsenic | <0.05 ug/g | 1 Drop | 0.05 ml | <0.50 ug/g |
| Cadmium | <0.05 ug/g | 1 Drop | 0.05 ml | <0.50 ug/g |
| Lead | <0.05 ug/g | 1 Drop | 0.05 ml | <0.50 ug/g |
| Mercury | <0.05 ug/g | 1 Drop | 0.05 ml | <0.50 ug/g |
| Selenium ⁽¹⁾ | 125 ug/drop | 1 Drop | 0.05 ml | ≥ 100 ug/Drop |

Respectfully Submitted,
Chemical Solutions, Ltd.

QA Representative

Notes:

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The units for the PQL are the same as those shown for the result.

*The unit weight was provided by the client as 0.05ml and is equal to 1 drop.

⁽¹⁾Assuming a density of 1.00 g/ml



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Certificate of Analysis

Project Description: Product Testing (PO # MH10022018)
Report Issued To: Allergy Research Group
2300 North Loop
Alameda, CA 94501
Contact: Janice Vu

AEMTEK #: 1810151

Sampling Date: 2018-10-02
Sample Received: 2018-10-03
Analysis Started: 2018-10-03
Analysis Performed By: JC, MM, FH
Report Issue Date: 2018-10-06

| Sample ID | Analyte | Aerobic Plate Count | Total Coliforms | Yeast | Mold | Escherichia coli | Salmonella | Staphylococcus aureus |
|-----------|--------------------------------------|---------------------|-----------------|------------------|------------------|--------------------|--------------------|-----------------------|
| 2 | Method | AOAC OMA 990.12 | AOAC OMA 991.14 | AOAC OMA 2014.05 | AOAC OMA 2014.05 | USP 37 <62> (mod.) | USP 37 <62> (mod.) | USP 37 <62> (mod.) |
| | Reporting Unit | CFU/g | CFU/g | CFU/g | CFU/g | per 10g | per 10g | per 10g |
| | Method Detection Limit for Reporting | 10 | 10 | 10 | 10 | P/A | P/A | P/A |
| | Sample Description | RESULTS | | | | | | |
| | Selenium Drops | <10 | <10 | <10 | <10 | ND | ND | ND |

Terminology:

CFU = Colony Forming Units
< Indicates less than the reporting limit as noted
ND = Not Detected, negative, absent. Sensitivity is about 1 organism per test portion.
BAM = FDA Bacteriological Analytical Manual
AOAC OMA = Official Methods of Analysis of the AOAC International, 18th ed.

MPN = Most Probable Number
P/A = Presence/Absence
CP Staph = Coagulase Positive Staphylococci (Staphylococcus aureus)
CMMEF = Compendium of Methods for the Microbiological Examination of Foods, 4th ed.
AOAC RI = AOAC Research Institute Performance Tested.

N/A = Not Applicable or not analyzed

JL 10108118