



|                |            |
|----------------|------------|
| Document #:    | F510-7     |
| Revision date: | 12/27/2022 |
| Comments:      |            |
| Approval:      | Director   |

**Certificate of Analysis: Probiotics + 42 Billion lot#SP10428**

**HDA contact**  
 High Desert Analysis  
 624 W Gurley St. Ste D  
 Prescott, AZ. 86305  
 jconnaughton@highdesertanalysis.consulting  
 phone:(812) 929-0675

**Customer contact**  
 Nutritional Roots LLC  
 675 Alpha Dr Ste G  
 Highland Heights, OH. 44143

May 2, 2024

ISO/IEC 17025 Certificate No.: AT 18-25

**Sample Information**

|                       |  |
|-----------------------|--|
| Date of inquiry       | 4/30/2024  |
| Collection date       | 4/30/2024  |
| Date of receipt       | 4/30/2024  |
| Date test performed   | 4/30/2024  |
| Sample ID             | 240502-32  |
| Lab ID                | ALab   |
| Type of test          | IR,NIR,HPLC,UV-Vis,ICP,Luminex,Raman,Elisa,GC,LCMS,TLC, SEM-EDS, NMR |
| Name of test material | <b>Probiotics + 42 Billion lot#SP10428</b>                           |
| Expiry date           | 11/28/2026   |
| sample from           | Nutritional Roots LLC  |

**Summary of Analysis**

The analysis of the sample identified above by the Laboratory Procedure was successful in determining the analysis. The sample is consistent with being within our predefined limits of detection for each item.  
 Average capsule fill weight 812 mg

**Reported Results**

1 capsule serving

| Items   | Specifications (mg) | Specifications (B CFU) | Specifications (mcg) | Results (mg) | Results (B CFU) | Results (mcg) | Test Methods                | Pass/Fail/Other |
|---|---------------------|------------------------|----------------------|--------------|-----------------|---------------|-----------------------------|-----------------|
| Blend containing:   | 454.5               |                        |                      | 502.11       |                 |               | HPLC, NMR, SEM-EDS, TLC     | Pass            |
| Organic Beet Root Oligosaccharides  |                     |                        |                      |              |                 |               | HPLC, NMR, SEM-EDS, TLC     | Pass            |
| Organic chicory root Inulin   |                     |                        |                      |              |                 |               | HPLC, NMR, SEM-EDS          | Pass            |
| Organic Jerusalem artichoke Inulin  |                     |                        |                      |              |                 |               | HPLC, NMR, SEM-EDS          | Pass            |
| Organic Tapioca Oligosaccharide   |                     |                        |                      |              |                 |               | HPLC, NMR, SEM-EDS, TLC     | Pass            |
| Organic Acacia fiber  | 275.0               |                        |                      | 275.0        |                 |               | HPLC, NMR, SEM-EDS, TLC     | Pass            |
| Blend 42 Billion CFU; bifidobacterium longum(1714), bifidobacterium breve(1205), bifidobacterium animalis lactis(HNO19), bifidobacterium bifidum, streptococcus thermophilus, lactobacillus casei, lactobacillus bulgaricus, lactobacillus lactis, lactobacillus acidophilus(NCFM), lactobacillus helveticus, bacillus coagulans, bacillus subtilis | 115.5               | 42                     |                      | 127.60       | 46.40           |               | HPLC, NMR, SEM-EDS, Luminex | Pass            |
| Blend containing:   | 90.00               |                        |                      | 99.4         |                 |               | HPLC, NMR, SEM-EDS          | Pass            |
| Organic Ashwagandha root leaf extract(Withania somnifera)   |                     |                        |                      |              |                 |               | HPLC, NMR, SEM-EDS, TLC     | Pass            |
| Organic Ginkgo(ginkgo biloba)   |                     |                        |                      |              |                 |               | HPLC, NMR, SEM-EDS, TLC     | Pass            |
| Organic Valerian root extract( valeriana officinalis)   |                     |                        |                      |              |                 |               | HPLC, NMR, SEM-EDS, TLC     | Pass            |
| Blend containing:   | 75                  |                        |                      | 82.86        |                 |               | HPLC, NMR, SEM-EDS, TLC     | Pass            |
| Organic apple cider vinegar   |                     |                        |                      |              |                 |               | HPLC, NMR, SEM-EDS, TLC     | Pass            |
| Organic peppermint  |                     |                        |                      |              |                 |               | HPLC, NMR, SEM-EDS, TLC     | Pass            |
| Organic Ginger  |                     |                        |                      |              |                 |               | HPLC, NMR, SEM-EDS, TLC     | Pass            |
| Amylase   |                     |                        |                      |              |                 |               | HPLC, NMR, SEM-EDS, Luminex | Pass            |
| Glucoamylase  |                     |                        |                      |              |                 |               | HPLC, NMR, SEM-EDS, Luminex | Pass            |
| Lipase  |                     |                        |                      |              |                 |               | HPLC, NMR, SEM-EDS, Luminex | Pass            |
| Protease  |                     |                        |                      |              |                 |               | HPLC, NMR, SEM-EDS, Luminex | Pass            |

**Observations:**

Authorized by

Date:

5/2/2024

James Connaughton BA, MBA, ND  
 Technical Director

The results contained herein relate only to the items tested. This test report shall not be reproduced, except in full, without the expressed written consent of the Laboratory. All analytical work is conducted professionally in accordance with all applicable standard laboratory practices and that this data reflects our best attempt to generate accurate results for the specific sample(s) provided.