

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



Certificate of Analysis: Probiotics + lot#SP10291

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

Nov 28, 2023

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

Sample Information

Date of inquiry	11/27/2023
Collection date	11/27/2023
Date of receipt	11/27/2023
Date test performed	11/27/2023
Sample ID	231128-31
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	Probiotics + lot#SP10291
Expiry date	10/28/2026
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 713 mg

Reported Results

serving 2 capsule

Items	Specifications (mg)	Specifications (B CFU)	Specifications (mg)	Results (mg)	Results (B CFU)	Results (mg)	Test Methods	Pass/Fail
Blend containing:	454.5			440.82			HPLC, NMR, SEM-EDS, Raman	ow, Pass
Organic Beet root oligosaccharides	██████████			██████████			HPLC, NMR, SEM-EDS, Raman	ow, Pass
Organic chicory root Inulin	██████████			██████████			HPLC, NMR, SEM-EDS, Raman	ow, Pass
Organic Jerusalem artichoke Inulin	██████████			██████████			HPLC, NMR, SEM-EDS, Raman	ow, Pass
Organic Tapioca oligosaccharide	██████████			██████████			HPLC, NMR, SEM-EDS, Raman	ow, Pass
Organic Acacia fiber	██████████			██████████			HPLC, NMR, SEM-EDS, Raman	ow, Pass
Blend 42 Billion CFU; bifidobacterium longum(1714), bifidobacterium breve(1205), bifidobacterium animalis lactis(MN019), bifidobacterium bifidum, streptococcus thermophilus, lactobacillus casei, lactobacillus bulgaricus, lactobacillus lactis, lactobacillus acidophilus(NCFM), lactobacillus helveticus, bacillus coagulans, bacillus subtilis	115.50	42		112	40.73		HPLC, NMR, SEM-EDS, Raman, Luminex	ow, Pass
Blend containing:	90.00			87			HPLC, NMR, SEM-EDS, Raman	ow, Pass
Organic Ashwagandha root leaf extract(Withania somnifera)	██████████			██████████			HPLC, NMR, SEM-EDS, Raman	ow, Pass
Organic Ginkgo(ginkgo biloba)	██████████			██████████			HPLC, NMR, SEM-EDS, Raman	ow, Pass
Organic Valerian root extract(valeriana officinalis)	██████████			██████████			HPLC, NMR, SEM-EDS, Raman	ow, Pass
Blend containing:	75.000			72.74			HPLC, NMR, SEM-EDS, Raman	ow, Pass
Organic apple cider vinegar	██████████			██████████			HPLC, NMR, SEM-EDS, Raman	ow, Pass
Organic peppermint	██████████			██████████			HPLC, NMR, SEM-EDS, Raman	ow, Pass
Organic Ginger	██████████			██████████			HPLC, NMR, SEM-EDS, Raman	ow, Pass
Amylase	██████████			██████████			HPLC, NMR, SEM-EDS, Raman, Luminex	ow, Pass
Glucosylase	██████████			██████████			HPLC, NMR, SEM-EDS, Raman, Luminex	ow, Pass
Lipase	██████████			██████████			HPLC, NMR, SEM-EDS, Raman, Luminex	ow, Pass
Protease	██████████			██████████			HPLC, NMR, SEM-EDS, Raman, Luminex	ow, Pass

Observations: Fill weights low

Authorized by

Date: 11/28/2023

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.