

Title: BifidoBiotics, 60 Vegetarian Capsules	
Allergy Research Group* / NutriCology*	
Document No.: 71910CA	Revision: 011

Certificate of Analysis

Part Number	71910		
Lot Number	01180117		
Product Count & Form	60 Vegetarian Capsules, desiccant, rayon		
Packaging, Closure	150 cc amber glass bottle		
Storage Condition	Refrigerated (2-8° C). Avoid heat exposure.		
Shelf Life	24 months	Expiration Date	02/20
Label Number, Size	71910L, D		
Retain Sample	2 bottles per label (4 bottles total)		

ANALYSIS

Physical

Attribute	Method / SOP	Specification	Test Result
Product Color, Size	SOP 515	White, clear, Size "1"	Complies
Product Weight Variation	SOP 514	Meets USP <2091> 480- 590 mg	Passes, 510.39 mg
Disintegration Time	SOP 522	Meets USP <2040>	Passes*

*Production and Process Control

Milk Allergen

Attribute	Method / SOP	Specification	Test Result
Total Milk Content	Veratox	None Detected	None Detected

*Production and Process Control

Purity / Strength per Capsule

Active Ingredient	Label Claim	Specification	Test Result
<i>Lactobacillus rhamnosus</i>	2.2 Billion CFU†	90-125% LC by cell enumeration	5.05 billion CFU/cap‡
<i>Lactobacillus sporongenes</i>	360 Million CFU†	90-125% LC by cell enumeration	
<i>Lactobacillus acidophilus</i>	240 Million CFU†	90-125% LC by cell enumeration	
<i>Bifidobacterium breve</i>	1.2 Billion CFU†	90-125% LC by cell enumeration	
<i>Bifidobacterium longum</i>	1.2 Billion CFU†	90-125% LC by cell enumeration	
Other Ingredients: maltodextrin, dicalcium phosphate anhydrous, stearic acid			

*Production and Process Control, † Viable cell count at the time of manufacture; ‡-Danisco method by Covance, average of 4 results.

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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 (inorganic)	ICP-MS per USP <2232>	≤ 15 mcg/day Ψ	BQL
Cadmium	ICP-MS per USP <2232>	≤ 5 mcg/day Ψ	0.09 mcg/day
Mercury (total)	ICP-MS per USP <2232>	≤ 15 mcg/day Ψ	BQL
Lead	ICP-MS per USP <2232>	≤ 10 mcg/day Ψ	BQL

Ψ – Permitted Daily Exposure, BQL – Below Quantitation Level, φ - Complies with California Proposition 65 Limits, *Production and Process Control

Microbiology

Attribute	Method / SOP	Specification	Test Result
Total Aerobic Count	USP/ AOAC/ FDA BAM	≤ 1 x 10 ⁴ CFU/g	<10 CFU/g
Total Yeast & Mold	USP/ AOAC/ FDA BAM	≤ 1 x 10 ⁵ CFU/g	<10 CFU/g
Coliform	USP/ AOAC/ FDA BAM	≤ 1 x 10 ⁴ CFU/g	<10 CFU/g
Escherichi coli	USP/ AOAC/ FDA BAM	≤ 1 x 10 ² CFU/g	None Detected
Staphylococcus aureus	USP/ AOAC/ FDA BAM	None Detected	None Detected
Salmonella	USP/ AOAC/ FDA BAM	None Detected	None Detected

USP <61> optional except for coliforms, *Production and Process Control

*Production and process control

Approval: 	Date: 03/20/18
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Certificate of Analysis

Allergy Research Group

Sample Name:	Bifido Biotics	Covance Sample:	7049188
Project ID	ALLER_RE_G-20180228-0005	Receipt Date	28-Feb-2018
PO Number	JV02272018	Receipt Condition	Cold on Wet Ice or Ice Packs
Sample Serving Size	1 Cap	Login Date	28-Feb-2018
Description	81910-01180117	Online Order	20

Analysis	Result
Total Probiotic Enumeration (Danisco)	
Entity Weight	0.4880 g
Entity Fill Weight	0.4220 g
Total Probiotic Enumeration (Danisco)	
Total Probiotic Enumeration	4.6e9 CFU/Serving

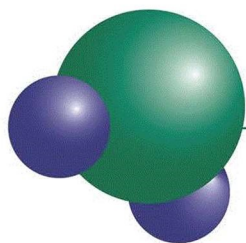
Method References	Testing Location
Total Probiotic Enumeration (Danisco) (DTPRO) Enumeration with MRS + Cysteine	Covance Laboratories - Madison NE
Total Probiotic Enumeration (Danisco) (PREP_NE)	Covance Laboratories - Madison NE

Testing Location(s)	Released on Behalf of Covance by
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Covance Laboratories - Madison NE **Richard Higby - Director**

Covance Laboratories Inc.
2102 Wright Street
Madison WI 53704
855-83-MICRO

These results apply only to the items tested. This certificate of analysis shall not be reproduced, except in its entirety, without the written approval of Covance.



Analytical Report

March 08, 2018

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

Page 1 of 1
WO Number: W18B1037

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

Customer PO:
Date Received: 2/28/2018
Date Completed: 03/08/2018
Discard Date: 03/22/2018

CSL#: 18B3454 Bifido Biotics - Lot#: 81910 / 01180117

Parameter	Result	PQL	Method	Date	Analyst
Arsenic	<0.050 ug/g	0.050	ICP MS	03/07/18	JTP
Cadmium	0.055 ug/g	0.050	ICP MS	03/01/18	JTP
Lead	<0.050 ug/g	0.050	ICP MS	02/28/18	JTP
Mercury	<0.050 ug/g	0.050	ICP MS	03/01/18	JTP

CSL#: 18B3454

Parameter	Result	Serving Size	Unit Weight	Specification
Arsenic	<0.05 ug/g	1 Capsule	0.50 g	<0.50 ug/g
Cadmium	0.06 ug/g	1 Capsule	0.50 g	<0.50 ug/g
Lead	<0.05 ug/g	1 Capsule	0.50 g	<0.50 ug/g
Mercury	<0.05 ug/g	1 Capsule	0.50 g	<0.50 ug/g

Respectfully Submitted,
Chemical Solutions, Ltd.

QA Representative

Notes:

CONFIDENTIAL REPORT. This report is confidential and is for the sole use of the addressee.
This report can only be reproduced in full.
The units for the PQL are the same as those shown for the result.



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Project Description: Product Testing (PO # MH02272018)
Report Issued To: Allergy Research Group
2300 North Loop
Alameda, CA 94501
Contact: Janice Vu

Certificate of Analysis

AEMTEK #: 18021427

Sampling Date: 2018-02-28
Sample Received: 2018-02-28
Analysis Started: 2018-02-28
Analysis Performed By: WY, MG
Report Issue Date: 2018-03-03

Sample ID	Analyte	Aerobic Plate Count	Total Coliforms	Yeast	Mold	Escherichia coli	Salmonella	Staphylococcus aureus
5	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						
	Lot #/Code	81910/01180117						
	Bifido Biotics	<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 Slaph = Coagulase Positive Staphylococci (Staphylococcus aureus)
 CMMEF = Compendium of Methods for the Microbiological Examination of Foods, 4th ed.
 AOAC RI = AOAC Research Institute Performance Tested.

[Handwritten Signature]
03/05/18