Title: **Lactobacillus, 100 Vegetarian Capsules**	
Allergy Research Group® / NutriCology®	
Document No.: 72780CA	Revision: 009

Certificate of Analysis

Part Number	72780		
Lot Number	01196876		
Product Count & Form	100 Vegetarian Capsules		
Packaging, Closure	150 cc amber glass bottle, desiccant, cotton/rayon		
Storage Condition	Refrigerated (2-8° C). Avoid heat exposure.		
Shelf Life	24 months	Expiration Date	02121
Label Number, Size	72780L, C		
Retain Sample	2 bottles per label (4 bottles total)		

ANALYSIS

Physical

Attribute	Method / SOP	Specification	Test Result
Product Color, Size	SOP 515	Tan, Beige, Size "0"	Complies
Product Weight Variation	SOP 514	Meets USP <2091> 490 - 610 mg	Passes, 504.040 mg*
Disintegration time	SOP 522	Meets USP <2040>	Passes 7 min 32 sec*

*Per manufacture CofA

Milk Allergen

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

*Production and Process Control

Purity / Strength per Capsule

Ingredients	Label Claim	Specification	Test Result
Lactobacillus Blend Consisting of:			
Lactobacillus Plantarum (58%)	10 Billion CFU/cap†	100 - 150% of LC by cell enumeration	1.8×10^{10} CFU/cap
Lactobacillus Salivarius (24%)	4 Billion CFU/cap†	100 - 150% of LC by cell enumeration	
Lactobacillus Rhamnosus (18%)	3 Billion CFU/cap†	100 - 150% of LC by cell enumeration	
Other Ingredients: Hydroxypropyl methylcellulose, FOS, L-leucine			

*Production and Process Control, † Viable cell count at the time of manufacture.

Title: **Lactobacillus, 100 Vegetarian Capsules**	
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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	Matches Reference
Arsenic (inorganic)	ICP-MS per USP <2232>	≤ 15 mcg/day Ψ	BQL Ψ
Cadmium	ICP-MS per USP <2232>	≤ 5 mcg/day Ψ	BQL Ψ
Mercury (total)	ICP-MS per USP <2232>	≤ 15 mcg/day Ψ	BQL Ψ
Lead	ICP-MS per USP <2232>	≤ 10 mcg/day Ψ	BQL Ψ

BQL - Below Quantitation Level, Ψ – Permitted Daily Exposure, 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 10^7 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
Escherichia 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

Upon presence of Escherichia coli, determine if colonies are enterovirulent. There is a zero tolerance for the presence of enterovirulent Escherichia coli.

*Production and Process Control

Approval:	Date: 04/08/19

eurofins | Food Integrity & Innovation

Report Number:	**2451076-0**
Report Date:	**04-Apr-2019**
Report Status:	**Final**

Certificate of Analysis

Allergy Research Group

2300 N. Loop Rd.
Alameda California 94502 United States

Sample Name:	**Lactoblend**	**Eurofins Sample:**	**8291622**
Project ID	ALLER_RE_G-20190327-0014	**Receipt Date**	27-Mar-2019
PO Number	MH03262019	**Receipt Condition**	Ambient temperature
Sample Serving Size	1 Cap	**Login Date**	27-Mar-2019
Description	82780-01196876	**Date Started**	28-Mar-2019
		Online Order	20

Analysis	**Result**
Total Probiotic Enumeration (Danisco)	
Entity Weight	0.5080 g
Entity Fill Weight	0.4080 g
Total Probiotic Enumeration (Danisco)	
Total Probiotic Enumeration	1.8e10 CFU/Serving

Method References	**Testing Location**
Total Probiotic Enumeration (Danisco) (DTPRO)	**Food Integ. Innovation-Madison NE**
Enumeration with MRS + Cysteine	
Total Probiotic Enumeration (Danisco) (PREP_NE)	**Food Integ. Innovation-Madison NE**

Testing Location(s)	**Released on Behalf of Eurofins by**
Food Integ. Innovation-Madison NE	**Richard Higby - Director**

Eurofins Food Chemistry Testing US, Inc.
2102 Wright Street
Madison WI 53704
800-675-8375

Eurofins Food Integrity and Innovation accepts all liability for work conducted as of 01 Aug 2018.

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 Eurofins.

chemical solutions ltd.®
trace elemental analysis

Analytical Report

April 02, 2019

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

WO Number: W19C1060

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

Customer PO: MH03262019
Date Received: 3/27/2019
Date Completed: 04/02/2019
Discard Date: 04/16/2019

CSL#: 19C2822 **LactoBlend - Lot#: 82780/ 01196876**

Parameter	Result	PQL	Method	Date	Analyst
Arsenic	<0.050 ug/g	0.050	ICP MS	04/01/19	JTP
Cadmium	<0.050 ug/g	0.050	ICP MS	04/01/19	JTP
Lead	<0.050 ug/g	0.050	ICP MS	03/27/19	JTG
Mercury	<0.050 ug/g	0.050	ICP MS	04/01/19	JTP

CSL#: 19C2822

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

AEMTEK, INC.

466 Kato Terrace.
Fremont, CA 94539
Phone: 510-979-1979
Fax: 510-668-1980
E-mail: labdata@aemtek.com
Web: www.aemtek.com

Project Description: Product Testing (PO # MH03262019)
Report Issued To: Allergy Research Group
2300 North Loop
Alameda, CA 94501
Contact: Janice Vu

Certificate of Analysis

AEMTEK #: 19031451

Sampling Date: 2019-03-26
Sample Received: 2019-03-27
Analysis Started: 2019-03-27
Analysis Performed By: CL, WY, JC, EM, EL
Report Issue Date: 2019-03-31

Analyte			Total Coliforms	Yeast	Mold	Escherichia coli	Salmonella	Staphylococcus aureus
Method			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	per 10g	per 10g	per 10g
Method Detection Limit for Reporting			10	10	10	P/A	P/A	P/A
Sample ID	**Sample Description**	**Lot #/Code**	**RESULTS**					
4	Lactoblend	82780/ 01196876	<10	<10	<10	ND	ND	ND

Terminology:

CFU = Colony Forming Units g = gram
< 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 N/A = Not Applicble or not analyzed
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.

04/01/19