

Title: <b>NT Factor EnergyLipids Powder, 150 grams</b>	
Allergy Research Group* / NutriCology*	
Document No.:76710CA	Revision: 007

## Certificate of Analysis

<b>Part Number</b>	76710		
<b>Lot Number</b>	183348		
<b>Product Count &amp; Form</b>	150 grams Powder		
<b>Packaging, Closure</b>	400 cc bottle containing; 3 Barrel desiccant and long handle scoop, 1.25 g capacity		
<b>Storage Condition</b>	Room Temperature		
<b>Shelf Life</b>	30 months	Expiration Date	12/21
<b>Label Number, Size</b>	76710L, C		
<b>Retain Sample</b>	1 bottle per label (2 bottles total)		

### ANALYSIS

#### Physical

Attribute	Method / SOP	Specification	Test Result
Product Color, Size	SOP 515	Light yellow powder	Complies
Odor / Taste	SOP 515	Characteristic odor / taste	Complies

#### Purity/Strength

Active Ingredients	Label Claim	Release Limits / Test Method	Test Result
Proprietary Blend of Lecithin Phospholipids: Phosphatadic Acid (PA) Phosphatidyl-Choline (PC) Phosphatidyl-ethanolamine (PE) Phosphatidyl-glycerol (PG) Phosphatidyl-inositol (PI) Phosphatidylserine(PS) Digalactosyldiacylglyceride (DGDG) Monogalactosyldiacylglyceride (MGDG)	1087 mg of Soy Lecithin Extract	100-150% LC by Input	100-150% LC by Input*
Phospholipids	Perform and report	> 40% Phospholipids by <sup>31</sup> P=NMR	57.6%
Phosphatidylcholine (PC)	Perform and report	15 – 30% by <sup>31</sup> P=NMR	20.08%
<b>Other Ingredients:</b> FOS, Pantethine, Sodium Borate, Rosemary Extract			

\*Production and Process control

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**Identification \ Chemical \ Heavy Metals**

Attribute	Method / SOP	Specification	Test Result
Identity	Bulk Certificate of Analysis Review	Approved	Complies
Identity	Near Infrared Spectroscopy	Matches Reference	Complies
Arsenic (inorganic)	ICP-MS per USP <2232>	≤ 15 mcg/day	BQL
Cadmium	ICP-MS per USP <2232>	≤ 5 mcg/day	BQL
Mercury (total)	ICP-MS per USP <2232>	≤ 15 mcg/day	BQL
Lead	ICP-MS per USP <2232>	≤ 10 mcg/day	BQL

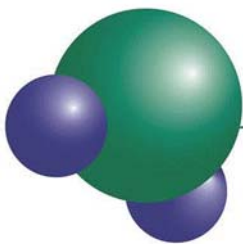
\*Production and Process control

**Microbiology**

Attribute	Method / SOP	Specification	Test Result
Total Aerobic Count	USP/ AOAC/ FDA BAM	≤ 1 x 10 <sup>4</sup> CFU/g	10 CFU/g
Total Yeast & Mold	USP/ AOAC/ FDA BAM	≤ 1 x 10 <sup>3</sup> CFU/g	<10 CFU/g
Coliform	USP/ AOAC/ FDA BAM	≤ 1 x 10 <sup>2</sup> 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: 02/21/19
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## Analytical Report

January 15, 2019

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

Page 1 of 1  
WO Number: W19A0191

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

Customer PO: MH01042019  
Date Received: 1/7/2019  
Date Completed: 01/15/2019  
Discard Date: 01/29/2019

**CSL#: 19A0490**      **NTFactor Lipid Powder- Lot#: 86710 / 183348**

Parameter	Result	PQL	Method	Date	Analyst
Arsenic	<0.050 ug/g	0.050	ICP MS	01/14/19	RBP
Cadmium	<0.050 ug/g	0.050	ICP MS	01/14/19	RBP
Lead	<0.050 ug/g	0.050	ICP MS	01/08/19	KMS
Mercury	<0.050 ug/g	0.050	ICP MS	01/09/19	RBP

**CSL#: 19A0490**

Parameter	Result	Serving Size	Unit Weight	Specification
Arsenic	<0.05 ug/g	1 g	NA	<0.50 ug/g
Cadmium	<0.05 ug/g	1 g	NA	<0.50 ug/g
Lead	<0.05 ug/g	1 g	NA	<0.50 ug/g
Mercury	<0.05 ug/g	1 g	NA	<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.  
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The units for the PQL are the same as those shown for the result.



# AEMTEK, INC.

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 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 # MH01032019)  
**Report Issued To:** Allergy Research Group  
 2300 North Loop  
 Alameda, CA 94501  
**Contact:** Janice Vu

## Certificate of Analysis

**AEMTEK #:** 1901211

**Sampling Date:** 2019-01-03  
**Sample Received:** 2019-01-07  
**Analysis Started:** 2019-01-07  
**Analysis Performed By:** MM, JC  
**Report Issue Date:** 2019-01-10

Sample ID	Analyte		Aerobic Plate Count	Total Coliforms	Yeast	Mold	Escherichia coli	Salmonella	Staphylococcus aureus
	Method	Reporting Unit							
1	Method	Reporting Unit	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.)
	Method Detection Limit for Reporting		CFU/g	CFU/g	CFU/g	CFU/g	per 10g	per 10g	per 10g
	Sample Description	Lot #/Code	10	10	10	10	P/A	P/A	P/A
	NTFactor Lipid Powder	86710/ 183348	10	<10	<10	<10	ND	ND	ND
<b>RESULTS</b>									

**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)  
 CMMIEF = 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

*Handwritten signature*