

Title: Delta-Fraction Tocotrienols (Delta Gold) 50 mg	
Allergy Research Group* / NutriCology*	
Document No.: 75270CA	Revision: 09

Certificate of Analysis

Part Number	75270		
Lot Number	7101		
Product Count & Form	75 Softgels		
Packaging, Closure	100 cc bottle		
Storage Condition	Room Temperature		
Shelf Life	36 months	Expiration Date	11/20
Label Number, Size	75270L, C		
Retain Sample	4 bottles total		

ANALYSIS

Physical

Attribute	Method \ SOP	Specification	Test Result
Product Color, Size	SOP 515	Dark Amber to Red/Orange, Oval, size "S1"	Complies
Product Weight Variation	SOP 514	Meets USP <2091> (expected 200 – 300 mg)	Passes, 244 mg
Disintegration time	SOP 522	Meets USP <2040>	Passes, 2 minutes

Purity/Strength per 1 Softgel

Active Ingredients	Label Claim	Release Limits	Test Result
Tocotrienols, DeltaGold 50%	50 mg by HPLC	100 - 150% of LC	52.6 mg
Other Ingredients			
Rice bran oil, gelatin, glycerin, water			

*Production and Process Control

Identification \ Chemical \ Heavy Metals

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

Ψ Permitted Daily Exposure, *Production and Process Control, BQL – Below Quantitative Level

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Microbiology

Attribute	Method / SOP	Specification	Test Result
Total Aerobic Count	USP/ AOAC/ FDA BAM	$\leq 1 \times 10^4$ CFU/g	< 10 CFU/g
Total Yeast & Mold	USP/ AOAC/ FDA BAM	$\leq 1 \times 10^3$ CFU/g	< 10 CFU/g
Coliform	USP/ AOAC/ FDA BAM	$\leq 1 \times 10^2$ CFU/g	< 10 CFU/g
Escherichi 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: 04/13/18
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Allergy Research Group

Client # 85900

Person(s) Requesting Services:	Rick Bierman
Report Generated On - Date:	2/7/2018
Analyst:	Darlene Paulino
Authorizing Personnel:	Jennifer Ballance
Purchase Order #:	KH01232018

Track No. 2015-0159

Tocopherols & Tocotrienols

CTI#	Matrix	Sample ID or Description	Lot or Batch#	alpha-Tocopherol	alpha-Tocotrienol	beta-Tocopherol	gamma-Tocopherol	beta-Tocotrienol	gamma-Tocotrienol	delta-Tocopherol	delta-Tocotrienol	Total Tocopherols	Total Tocotrienols
mcg/g												mcg/g	mcg/g
1	Softgel	DeltaGold	45270/ 0181-7101	nd	nd	nd	nd	nd	49062	nd	362010	nd	411072

CTI#	Matrix	Sample ID or Description	Lot or Batch#	Total Tocopherols	Total Tocotrienols	Client Specification - Total Tocotrienols
				mg/softgel	mg/softgel	mg/softgel
1	Softgel	DeltaGold	45270/ 0181-7101	nd	52.6	50

Notes:

"nd" = none detected

Detection limit = 600 mcg/g

Average fill weight provided by CTI = 0.128 g/softgel

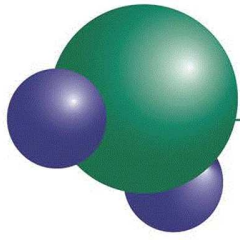
Method Reference:

In-House HPLC - SS-11 Tocopherols & Tocotrienols

CTI warrants the results of analysis for samples as received. Liability is limited to reanalysis of the samples.

Signature of Authorized Personnel: J. Ballance

Approved Date: 2/7/2018



Analytical Report

January 30, 2018

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

Page 1 of 1
WO Number: W18A0802

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

Customer PO:
Date Received: 1/24/2018
Date Completed: 01/30/2018
Discard Date: 02/13/2018

CSL#: 18A2101 Delta Gold - Lot#: 45270/0181/7101

Parameter	Result	PQL	Method	Date	Analyst
Arsenic	<0.050 ug/g	0.050	ICP MS	01/29/18	EM
Cadmium	<0.050 ug/g	0.050	ICP MS	01/29/18	EM
Lead	<0.050 ug/g	0.050	ICP MS	01/26/18	JTP
Mercury	<0.050 ug/g	0.050	ICP MS	01/29/18	EM

CSL#: 18A2101

Parameter	Result	Serving Size	Unit Weight	Specification
Arsenic	<0.05 ug/g	1 Soft Gel	0.24 g	<0.50 ug/g
Cadmium	<0.05 ug/g	1 Soft Gel	0.24 g	<0.50 ug/g
Lead	<0.05 ug/g	1 Soft Gel	0.24 g	<0.50 ug/g
Mercury	<0.05 ug/g	1 Soft Gel	0.24 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.
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The units for the PQL are the same as those shown for the result.



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Certificate of Analysis

Project Description: Product Testing (PO # KH01232018)
Report Issued To: Allergy Research Group
2300 North Loop
Alameda, CA 94501
Contact: Janice Vu

Sampling Date: 2018-01-23
Sample Received: 2018-01-24
Analysis Started: 2018-01-24
Analysis Performed By: CP, VT, JC, EL
Report Issue Date: 2018-01-28

AEMTEK #: 18011156

Sample ID	Analyte	Aerobic Plate Count	Total Coliforms	Yeast	Mold	Escherichia coli	Salmonella	Staphylococcus aureus
3	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						
	Delta Gold	<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 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.

g = gram
N/A = Not Applicable or not analyzed

Handwritten signature
01/29/18