

Title: DHEA 50 mg, scored 60 Tablets	
Allergy Research Group* / NutriCology*	
Document No.: 72660CA	Revision: 007

Certificate of Analysis

Part Number	72660		
Lot Number	10151		
Product Count & Form	60 scored tablets		
Packaging, Closure	60 cc bottle, desiccant, rayon/cotton		
Storage Condition	Cool, dry place		
Shelf Life	24 months	Expiration Date	10/20
Label Number, Size	72660L, M		
Retain Sample	2 bottles per label (4 bottles total)		

ANALYSIS

Physical

Attribute	Method / SOP	Specification	Test Result
Product Color, Size	SOP 515	White, oblong, scored T1 tablet (stamped DHEA / 50)	Complies
Product Weight variation	SOP 514	Meets USP <2091> 290 - 410 mg range	Passes, 323 mg
Disintegration Time	SOP 522	Meets USP <2040>	Passes, 27 mins.

*Higher weight on this specific lot

Purity/Strength per Tablet

Active Ingredients	Label Claim	Release Limits	Test Result
DHEA (Dehydroepiandrosterone)	50 mg	100 - 150% LC by HPLC	50 mg
Other Ingredients			
Micosolle®, a silca-based excipient containing a non-ionic surfactant, microcrystalline cellulose, vegetable oil, vegetable wax, Aerosil®, Magnesium stearate, Vitamin E			

*Production and Process Control

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	0.0346 mcg/day
Cadmium	ICP-MS per USP <2232>	≤ 5 mcg/day Ψ	BQL
Mercury (total)	ICP-MS per USP <2232>	≤ 15 mcg/day Ψ	BQL
Lead	ICP-MS per USP <2232>	≤ 10 mcg/day Ψ	BQL

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

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Microbiology

Attribute	Method / SOP	Specification	Test Result
Total Aerobic Count	USP/ AOAC/ FDA BAM	$\leq 1 \times 10^3$ CFU/g	<10 CFU/g
Total Yeast & Mold	USP/ AOAC/ FDA BAM	$\leq 1 \times 10^2$ CFU/g	<10 CFU/g
Coliform	USP/ AOAC/ FDA BAM	$\leq 1 \times 10^2$ 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: 12/03/18
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 FDA Registration #3006423386

If you liked our service, please tell a friend. If you didn't, please tell us!

Test Certificate

Description: DHEA 50mg
 Sample ID:
 Lot No: 42660/20181015@1
 Part Code:
 Location:
 PO No: MH10312018
 Received: 11/1/2018

Client: Allergy Research Group
 2300 N Loop Rd.
 Alameda, CA 94502

Lab No: 160901-03
 Completed: 11/9/2018

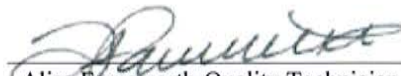
Analysis	Result	Per Unit	Specifications	Method
†DHEA	50	mg/tablet	>= 50 mg/tablet	HPLC

DHEA analysis performed using HPLC by method adapted from Gonzalo-Lumbreras, R., Izquierdo-Hornillos, R., "High-Performance Liquid Chromatographic Optimization Study for the Separation of Natural and Synthetic Anabolic Steroids. Application to Urine and Pharmaceutical Samples," as published in Journal Of Chromatography B-Analytical Technologies In The Biomedical And Life Sciences 742 (1): 1-11 May 2000; utilizing, a water-acetonitrile (55:45, v:v) mobile phase and a Hypersil ODS (250 mmx4.6 mm) 5 mm column (30 °C) in 38 min with photo-diode array detection. Authentic chemical reference materials obtained from Sigma-Aldrich.

THESE RESULTS APPLY ONLY TO THE SAMPLE SUBMITTED AND NOT TO THE PRODUCT FROM WHICH IT WAS TAKEN. THESE RESULTS ARE PROVIDED ONLY FOR THE BENEFIT OF CLIENT, WITHOUT REPRESENTATION OR WARRANTY OF ANY KIND, EXCEPT FOR THE EXPRESS LIMITED WARRANTY PROVIDED SOLELY TO CLIENT IN ADVANCED LABORATORIES' TERMS OF SERVICE.

THIS CERTIFICATE SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT WRITTEN APPROVAL FROM ADVANCED LABORATORIES.

Results Approved By:



 Alisa Farnsworth-Quality Technician

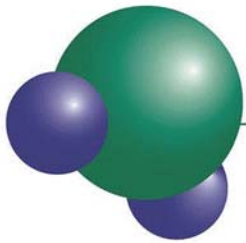
Dated: 11/9/2018

Tests marked with † were done at Atlas Bioscience Labs, LLC, a joint venture with Advanced Laboratories. - 1775 S. Pantano Rd - Ste #110, Tucson, AZ 85710

Printed: 11/9/2018 1:51:09 PM




 11/09/18



Analytical Report

November 05, 2018

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

Page 1 of 1
WO Number: W18K0018

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

Customer PO: MH10312018
Date Received: 11/1/2018
Date Completed: 11/05/2018
Discard Date: 11/19/2018

CSL#: 18K0031 DHEA 50mg - Lot#: 42660/20181015@1

Parameter	Result	PQL	Method	Date	Analyst
Arsenic	0.054 ug/g	0.050	ICP MS	11/05/18	RBP
Cadmium	<0.050 ug/g	0.050	ICP MS	11/05/18	RBP
Lead	<0.050 ug/g	0.050	ICP MS	11/01/18	JTP
Mercury	<0.050 ug/g	0.050	ICP MS	11/05/18	RBP

CSL#: 18K0031

Parameter	Result	Serving Size	Unit Weight	Specification
Arsenic	0.05 ug/g	1 Tablet	0.32 g	<0.50 ug/g
Cadmium	<0.05 ug/g	1 Tablet	0.32 g	<0.50 ug/g
Lead	<0.05 ug/g	1 Tablet	0.32 g	<0.50 ug/g
Mercury	<0.05 ug/g	1 Tablet	0.32 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.



AEMTEK, INC.

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Certificate of Analysis

Project Description: Product Testing (PO # MH10312018)
Report Issued To: Allergy Research Group
2300 North Loop
Alameda, CA 94501
Contact: Janice Vu

AEMTEK #: 1811035

Sampling Date: 2018-10-31
Sample Received: 2018-11-01
Analysis Started: 2018-11-01
Analysis Performed By: JC, WY, EL
Report Issue Date: 2018-11-04

Sample ID	Analyte	Aerobic Plate Count	Total Coliforms	Yeast	Mold	Escherichia coli	Salmonella	Staphylococcus aureus
2	DHEA 50mg	AOAC OMA 990.12 CFU/g 10	AOAC OMA 991.14 CFU/g 10	AOAC OMA 2014.05 CFU/g 10	AOAC OMA 2014.05 CFU/g 10	USP 37 <62> (mod.) per 10g P/A	USP 37 <62> (mod.) per 10g P/A	USP 37 <62> (mod.) per 10g P/A
RESULTS								
		<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.

N/A = Not Applicable or not analyzed

JW 11/05/18