



**Certificate of Analysis**  
February 1, 2021

**Sample ID:** FP-20-0762  
**Product Name:** CV Defense Immunity Capsule – 60ct  
**Lot #:** 09524329  
**Expiration:** 11/22  
**Storage Conditions:** Store away from direct heat and light.

Criteria	Specification	Test Method	cGMP requirements	Results
Fill Appearance	Free-flowing powder	Gross Organoleptic	Composition Identity	Complies
Color	White with some tan specs	Gross Organoleptic	Identity	Complies
Aroma	Umami	Gross Organoleptic	Identity	Complies
Capsule size	“00”	Gross Organoleptic	Identity	Complies
Count	NLT 60 units	gravimetric	Composition	Complies
Average weight	662mg +/- 10%	Calculated	Composition	Complies
Weight variation	Average weight +/- 10%	Analytical Scale	Composition	Complies
Vitamin A Palmitate	NLT 300mcg RAE per serving	HPLC-UV	Strength Purity Identity	388mcg RAE per serving
Vegan Vitamin D3	NLT 25mcg per serving	LC-MS/MS	Strength Purity Identity	39.8 mcg per serving
Zinc Picolinate	NLT 11mg per serving	ICP-OES	Strength Purity Identity	11.8mg per serving
Selenium (as L-Selenomethionine)	NLT 150mcg per serving	UPLC	Strength Purity Identity	162mcg per serving
Immulin Mushroom	NLT 100mg (by Input*) per serving	by Input*	Strength Purity Identity	Complies
Beta Glucan	NLT 5%	Megazyme Kit	Strength Purity Identity	6.09%



CV SCIENCES™

Criteria	Specification	Test Method	cGMP requirements	Results
Palmitoylethanolamine as Levagen+	NLT 600mg per serving	HPLC-UV	Strength Purity Identity	700mg per serving
Micro				
TAPC	<10,000 cfu/g	3M Petrifilm	Purity	Complies
Total Yeast & Mold	<1,000 cfu/g	3M Petrifilm	Purity	Complies
E.Coli	Negative in 10g	3M Petrifilm	Purity	Complies
Salmonella	Negative in 10g	3M Petrifilm	Purity	Complies
Coliforms	<100 cfu/g	3M Petrifilm	Purity	Complies
Pesticide Residue	Passes USP chapter 561	HPLC-MS	Limits on contaminants	Complies
Residual Solvents	Passes USP chapter 467-Residual solvents	HS-GC	Limits on contaminants	Complies
Heavy Metals				
Arsenic	NMT 5 ppm	ICP MS	Limits on contaminants	0.07 ppm
Cadmium	NMT 3 ppm	ICP MS	Limits on contaminants	Not Detected
Lead	NMT 0.4 ppm	ICP MS	Limits on contaminants	0.11 ppm
Mercury	NMT 1 ppm	ICP MS	Limits on contaminants	Not Detected

*Hayley Palmer*

FEB 01 2021

FEB 02 2021

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_  
Hayley Palmer, B.S.  
Quality Analyst

Approved By \_\_\_\_\_ Date \_\_\_\_\_  
Ryan Santiago, B.S.  
Senior Quality Associate

### Certificate of Analysis

#### CV Sciences Inc

10070 Barnes Canyon Rd  
San Diego California 92121 United States

<b>Sample Name:</b>	<b>FP-20-0762 CV Defense Immunity Capsules - 60ct EXP: 11-22</b>	<b>Eurofins Sample:</b>	<b>10127123</b>
<b>Project ID</b>	CV_SCIENCE-20201215-0016	<b>Receipt Date</b>	16-Dec-2020
<b>PO Number</b>	CVD	<b>Receipt Condition</b>	Ambient temperature
<b>Lot Number</b>	09524329	<b>Login Date</b>	15-Dec-2020
<b>Sample Serving Size</b>	2 Cap	<b>Date Started</b>	17-Dec-2020
		<b>Sampled</b>	Sample results apply as received
		<b>Number Compositied</b>	20
		<b>Online Order</b>	12836-149BC8E7

Analysis	Result		
<b>Beta Glucan *</b>			
Beta Glucan	6.03 %		
Beta Glucan	6.15 %		
<b>Calculated Sample Weight *</b>			
Entity Weight	0.6554 g		
Entity Fill Weight	0.5390 g		
Entity Weight	0.6554 g		
Entity Fill Weight	0.5390 g		
<b>Elements by ICP Emission Spectrometry (ICP-OES)</b>			
Zinc	11.8 mg/Serving Size		
<b>Vitamin D by LCMS</b>			
Total Vitamin D3	1710 IU/Serving size		
Total Vitamin D3 (mcg units)	42.7 mcg/Serving Size		
<b>Vitamin D by LCMS - Retest</b>			
Total Vitamin D3	1590 IU/Serving size		
Total Vitamin D3 (mcg units)	39.8 mcg/Serving Size		
<b>Vitamin A *</b>			
Vitamin A as Palmitate	1280 IU/Serving size		
Vitamin A as Palmitate	388 mcg RAE/Serving Size		
Vitamin A as Palmitate	711 mcg/Serving Size		
<b>Determination of Amino Acids by UPLC - Retest *</b>			
Selenium	162 mcg/Serving Size		
<b>USP 561 Pesticides Package *</b>			
USP 561 Pesticides Package	USP 561 Pesticides Package		
<b>Analysis</b>	<b>Limit</b>	<b>Result</b>	<b>Pass/Fail</b>
<b>Total Content of Dithiocarbamates (DTCs) expressed as CS2 *</b>			
Total Content of Dithiocarbamates (DTCs) expressed as CS2	2 mg/kg	<2.00 mg/kg	Pass

\* This analysis or component is not ISO accredited.

## Certificate of Analysis

### CV Sciences Inc

10070 Barnes Canyon Rd  
San Diego California 92121 United States

<b>Sample Name:</b>	<b>FP-20-0762 CV Defense Immunity Capsules - 60ct EXP: 11-22</b>	<b>Eurofins Sample:</b>	<b>10127123</b>
<b>Project ID</b>	CV_SCIENCE-20201215-0016	<b>Receipt Date</b>	16-Dec-2020
<b>PO Number</b>	CVD	<b>Receipt Condition</b>	Ambient temperature
<b>Lot Number</b>	09524329	<b>Login Date</b>	15-Dec-2020
<b>Sample Serving Size</b>	2 Cap	<b>Date Started</b>	17-Dec-2020
		<b>Sampled</b>	Sample results apply as received
		<b>Number Composited</b>	20
		<b>Online Order</b>	12836-149BC8B7

Analysis	Limit	Result	Pass/Fail
<b>Bromide *</b>			
Bromide, inorganic (calculated as Bromide Ion)	125 mg/kg	<125 mg/kg	Pass
<b>GC-MS/MS and LC-MS/MS Multi-Residue Analysis *</b>			
Acephate	0.1 mg/kg	<0.1 mg/kg	Pass
Alachlor	0.05 mg/kg	<0.05 mg/kg	Pass
Aldrin and dieldrin (sum of)	0.05 mg/kg	<0.05 mg/kg	Pass
Azinphos-ethyl	0.1 mg/kg	<0.1 mg/kg	Pass
Azinphos-methyl	1 mg/kg	<1 mg/kg	Pass
Bromophos-ethyl	0.05 mg/kg	<0.05 mg/kg	Pass
Bromophos-methyl	0.05 mg/kg	<0.05 mg/kg	Pass
Bromopropylate	3 mg/kg	<3 mg/kg	Pass
Chlordane (sum of cis- and trans- isomers and oxychlordane)	0.05 mg/kg	<0.05 mg/kg	Pass
Chlorfenvinphos	0.5 mg/kg	<0.5 mg/kg	Pass
Chlorpyrifos-ethyl	0.2 mg/kg	<0.2 mg/kg	Pass
Chlorpyrifos-methyl	0.1 mg/kg	<0.1 mg/kg	Pass
Chlorthal-dimethyl	0.01 mg/kg	<0.01 mg/kg	Pass
Cyfluthrin (sum of isomers)	0.1 mg/kg	<0.1 mg/kg	Pass
Cyhalothrin, lambda-	1 mg/kg	<1 mg/kg	Pass
Cypermethrin (sum of isomers)	1 mg/kg	<1 mg/kg	Pass
DDT (sum of o,p'-DDT, p,p'-DDT, o,p'-DDE, p,p'-DDE, o,p'-DDD, and p,p'-DDD)	1 mg/kg	<1.0 mg/kg	Pass
Deltamethrin	0.5 mg/kg	<0.5 mg/kg	Pass
Diazinon	0.5 mg/kg	<0.5 mg/kg	Pass
Dichlofuanid	0.1 mg/kg	<0.1 mg/kg	Pass
Dichlorvos	1 mg/kg	<1 mg/kg	Pass
Dicofol	0.5 mg/kg	<0.5 mg/kg	Pass
Dimethoate and omethoate (sum of)	0.1 mg/kg	<0.1 mg/kg	Pass

\* This analysis or component is not ISO accredited.

Printed: 29-Jan-2021 11:11 am

Page 2 of 7

## Certificate of Analysis

### CV Sciences Inc

10070 Barnes Canyon Rd  
San Diego California 92121 United States

<b>Sample Name:</b>	<b>FP-20-0762 CV Defense Immunity Capsules - 60ct EXP: 11-22</b>	<b>Eurofins Sample:</b>	<b>10127123</b>
<b>Project ID</b>	CV_SCIENCE-20201215-0016	<b>Receipt Date</b>	16-Dec-2020
<b>PO Number</b>	CVD	<b>Receipt Condition</b>	Ambient temperature
<b>Lot Number</b>	09524329	<b>Login Date</b>	15-Dec-2020
<b>Sample Serving Size</b>	2 Cap	<b>Date Started</b>	17-Dec-2020
		<b>Sampled</b>	Sample results apply as received
		<b>Number Composited</b>	20
		<b>Online Order</b>	12836-149BC8B7

Analysis	Limit	Result	Pass/Fail
<b>GC-MS/MS and LC-MS/MS Multi-Residue Analysis *</b>			
Endosulfan (sum of isomers and endosulfan sulfate)	3 mg/kg	<3.0 mg/kg	Pass
Endrin	0.05 mg/kg	<0.05 mg/kg	Pass
Ethion	2 mg/kg	<2 mg/kg	Pass
Etrimphos	0.05 mg/kg	<0.05 mg/kg	Pass
Fenchlorphos (sum of fenchlorphos and fenchlorphos-oxon)	0.1 mg/kg	<0.1 mg/kg	Pass
Fenitrothion	0.5 mg/kg	<0.5 mg/kg	Pass
Fenpropathrin	0.03 mg/kg	<0.03 mg/kg	Pass
Fensulfothion (sum of fensulfothion, fensulfothion-oxon, fensulfothion-oxon sulfone and fensulfothion sulfone)	0.05 mg/kg	<0.05 mg/kg	Pass
Fenthion (sum of fenthion, fenthion-oxon, fenthion-oxon sulfone, fenthion-oxon sulfoxide, fenthion sulfone and fenthion sulfoxide)	0.05 mg/kg	<0.05 mg/kg	Pass
Fenvalerate	1.5 mg/kg	<1.5 mg/kg	Pass
Flucythrinate	0.05 mg/kg	<0.05 mg/kg	Pass
Fluvalinate, tau-	0.05 mg/kg	<0.05 mg/kg	Pass
Fonofos	0.05 mg/kg	<0.05 mg/kg	Pass
Heptachlor (sum of heptachlor and cis- and trans-heptachlor epoxides)	0.05 mg/kg	<0.05 mg/kg	Pass
Hexachlorobenzene	0.1 mg/kg	<0.1 mg/kg	Pass
Hexachlorocyclohexane isomers (other than gamma)	0.3 mg/kg	<0.3 mg/kg	Pass
Lindane (gamma-hexachlorocyclohexane)	0.6 mg/kg	<0.6 mg/kg	Pass
Malathion and malaoxon (sum of)	1 mg/kg	<1 mg/kg	Pass
Mecarbam	0.05 mg/kg	<0.05 mg/kg	Pass
Methacriphos	0.05 mg/kg	<0.05 mg/kg	Pass

\* This analysis or component is not ISO accredited.

### Certificate of Analysis

#### CV Sciences Inc

10070 Barnes Canyon Rd  
San Diego California 92121 United States

<b>Sample Name:</b>	<b>FP-20-0762 CV Defense Immunity Capsules - 60ct EXP: 11-22</b>	<b>Eurofins Sample:</b>	<b>10127123</b>
<b>Project ID</b>	CV_SCIENCE-20201215-0016	<b>Receipt Date</b>	16-Dec-2020
<b>PO Number</b>	CVD	<b>Receipt Condition</b>	Ambient temperature
<b>Lot Number</b>	09524329	<b>Login Date</b>	15-Dec-2020
<b>Sample Serving Size</b>	2 Cap	<b>Date Started</b>	17-Dec-2020
		<b>Sampled</b>	Sample results apply as received
		<b>Number Composited</b>	20
		<b>Online Order</b>	12836-149BC8B7

Analysis	Limit	Result	Pass/Fail
<b>GC-MS/MS and LC-MS/MS Multi-Residue Analysis *</b>			
Methamidophos	0.05 mg/kg	<0.05 mg/kg	Pass
Methidathion	0.2 mg/kg	<0.2 mg/kg	Pass
Methoxychlor	0.05 mg/kg	<0.05 mg/kg	Pass
Mirex	0.01 mg/kg	<0.01 mg/kg	Pass
Monocrotophos	0.1 mg/kg	<0.1 mg/kg	Pass
Parathion-ethyl and paraoxon-ethyl (sum of)	0.5 mg/kg	<0.5 mg/kg	Pass
Parathion-methyl and paraoxon-methyl (sum of)	0.2 mg/kg	<0.2 mg/kg	Pass
Pendimethalin	0.1 mg/kg	<0.1 mg/kg	Pass
Pentachloranisol	0.01 mg/kg	<0.01 mg/kg	Pass
Permethrin (sum of isomers)	1 mg/kg	<1 mg/kg	Pass
Phosalone	0.1 mg/kg	<0.1 mg/kg	Pass
Phosmet	0.05 mg/kg	<0.05 mg/kg	Pass
Piperonyl butoxide	3 mg/kg	<3 mg/kg	Pass
Pirimiphos-ethyl	0.05 mg/kg	<0.05 mg/kg	Pass
Pirimiphos-methyl (sum of pirimiphos-methyl and N-desethyl-pirimiphos-methyl)	4 mg/kg	<4 mg/kg	Pass
Procymidone	0.1 mg/kg	<0.1 mg/kg	Pass
Profenophos	0.1 mg/kg	<0.1 mg/kg	Pass
Prothiophos	0.05 mg/kg	<0.05 mg/kg	Pass
Pyrethrum (sum of cinerin I, cinerin II, jasmolin I, jasmolin II, pyrethrin I, and pyrethrin II)	3 mg/kg	<3 mg/kg	Pass
Quinalphos	0.05 mg/kg	<0.05 mg/kg	Pass
Quintozene (sum of quintozene, pentachloroaniline and methyl pentachlorophenyl sulfide)	1 mg/kg	<1 mg/kg	Pass
S-421	0.02 mg/kg	<0.02 mg/kg	Pass
Tecnazene	0.05 mg/kg	<0.05 mg/kg	Pass
Tetradifon	0.3 mg/kg	<0.3 mg/kg	Pass

\* This analysis or component is not ISO accredited.

## Certificate of Analysis

### CV Sciences Inc

10070 Barnes Canyon Rd  
San Diego California 92121 United States

<b>Sample Name:</b>	<b>FP-20-0762 CV Defense Immunity Capsules - 60ct EXP: 11-22</b>	<b>Eurofins Sample:</b>	<b>10127123</b>
<b>Project ID</b>	CV_SCIENCE-20201215-0016	<b>Receipt Date</b>	16-Dec-2020
<b>PO Number</b>	CVD	<b>Receipt Condition</b>	Ambient temperature
<b>Lot Number</b>	09524329	<b>Login Date</b>	15-Dec-2020
<b>Sample Serving Size</b>	2 Cap	<b>Date Started</b>	17-Dec-2020
		<b>Sampled</b>	Sample results apply as received
		<b>Number Compositied</b>	20
		<b>Online Order</b>	12836-149BC8B7

Analysis	Limit	Result	Pass/Fail
<b>GC-MS/MS and LC-MS/MS Multi-Residue Analysis *</b>			
Vinclozolin	0.4 mg/kg	<0.4 mg/kg	Pass

#### Method References

#### Testing Location

#### Beta Glucan (MISC\_YBGL)

Megazyme Kit K-YBGL  
Megazyme Kit K-YBGL

**Food Integrity Innovation-Madison**  
3301 Kinsman Blvd Madison, WI 53704 USA

#### Bromide (EC\_MEBR\_S)

Community Reference Laboratory for Single Residue Methods, CVUA, Stuttgart, Schaglandstr 3/2, 70736 Fellbach, Germany.

T. Stijve, Gas Chromatographic Determination of Inorganic Bromide Residues - a Simplified Procedure, Dtsch. Lebenm Rundsch 77 99-101 (1981).

Deutsche Forschungsgemeinschaft (DFG), Manual of Pesticide Residue Analysis, Volume I by Verlag Chemie, 1987 ISBN 3-527-27010-8

**Eurofins Central Analytical Laboratories**  
2219 Lakeshore Dr Suite 500 New Orleans, LA 70122 USA

#### Calculated Sample Weight (PREP)

**Food Integrity Innovation-Madison**  
3301 Kinsman Blvd Madison, WI 53704 USA

#### Calculated Sample Weight (PREP\_BREA)

**Food Integrity Innovation-Brea**  
2951 Saturn Street, Unit C Brea, CA 92821 USA

#### Determination of Amino Acids by UPLC - Retest (OC\_AMINO\_S)

Internally Developed Method

**Food Integrity Innovation-Brea**  
2951 Saturn Street, Unit C Brea, CA 92821 USA

\* This analysis or component is not ISO accredited.

Printed: 29-Jan-2021 11:11 am

Page 5 of 7



## Certificate of Analysis

### CV Sciences Inc

10070 Barnes Canyon Rd  
San Diego California 92121 United States

Method References	Testing Location
<p><b>Elements by ICP Emission Spectrometry (ICP-OES) (ICP_S)</b></p> <p>Official Methods of Analysis of AOAC INTERNATIONAL, Method 984.27, 985.01, and 2011.14, AOAC INTERNATIONAL, Gaithersburg, MD, USA. (Modified)</p>	<p><b>Food Integrity Innovation-Madison</b> 3301 Kinsman Blvd Madison, WI 53704 USA</p>
<p><b>GC-MS/MS and LC-MS/MS Multi-Residue Analysis (EC_PS01_S)</b></p> <p>Official Methods of Analysis, AOAC Official Method 2007.01, Pesticide Residues in Foods by Acetonitrile Extraction and Partitioning with Magnesium Sulfate, AOAC INTERNATIONAL (modified).</p> <p>CEN Standard Method EN 15662: Food of plant origin - Determination of pesticide residues using GC-MS and/or LC-MS/MS following acetonitrile extraction/partitioning and clean-up by dispersive SPE - QuEChERS method.</p> <p><i>Please contact us</i> if you want a complete listing of all compounds determined during testing.</p>	<p><b>Eurofins Central Analytical Laboratories</b> 2219 Lakeshore Dr Suite 500 New Orleans, LA 70122 USA</p>
<p><b>Total Content of Dithiocarbamates (DTCs) expressed as CS<sub>2</sub> (EC_DTC_S)</b></p> <p>Hayama, T. and Takada, M., "Simple and Rapid method for the determination of Ethylenebisdithiocarbamate Fungicides in Fruits and Vegetables Using Liquid Chromatography with Tandem Mass Spectrometry," <i>Anal. Bioanal. Chem.</i>, 392:969-976 (2008).</p>	<p><b>Eurofins Central Analytical Laboratories</b> 2219 Lakeshore Dr Suite 500 New Orleans, LA 70122 USA</p>
<p><b>USP 561 Pesticides Package (EC_USP561)</b></p>	<p><b>Eurofins Central Analytical Laboratories</b> 2219 Lakeshore Dr Suite 500 New Orleans, LA 70122 USA</p>
<p><b>Vitamin A (VITA_DS_S)</b></p> <p>USP 38 - NF 33 pp 6384-6385, Dietary Supplements, Oil- and Water-Soluble Vitamins with Minerals Tablets, Vitamin A, Methods 1 and 2 (modified)</p>	<p><b>Food Integrity Innovation-Madison</b> 3301 Kinsman Blvd Madison, WI 53704 USA</p>
<p><b>Vitamin D by LCMS - Retest (VDMS_S)</b></p> <p>Official Methods of Analysis of AOAC INTERNATIONAL, Current Ed., Method 2011.11, AOAC INTERNATIONAL, Gaithersburg, MD, USA.</p> <p>Huang, M., Laluzerne, P., Winters, D., Sullivan, D., "Measurement of Vitamin D in Foods and Nutritional Supplements by Liquid Chromatography/Tandem Mass Spectrometry," <i>Journal of AOAC International</i>, Volume (92). No. 5:1327-1335 (2009).</p>	<p><b>Food Integrity Innovation-Madison</b> 3301 Kinsman Blvd Madison, WI 53704 USA</p>

\* This analysis or component is not ISO accredited.

Printed: 29-Jan-2021 11:11 am

Page 6 of 7



## Certificate of Analysis

### CV Sciences Inc

10070 Barnes Canyon Rd  
San Diego California 92121 United States

#### Method References

#### Testing Location

##### Vitamin D by LCMS (VDMS\_S)

##### Food Integrity Innovation-Madison

3301 Kinsman Blvd Madison, WI 53704 USA

Official Methods of Analysis of AOAC INTERNATIONAL, Current Ed., Method 2011.11,  
AOAC INTERNATIONAL, Gaithersburg, MD, USA.

Huang, M., Laluzerne, P., Winters, D., Sullivan, D., "Measurement of Vitamin D in Foods and Nutritional Supplements by Liquid  
Chromatography/Tandem Mass Spectrometry," *Journal of AOAC International*, Volume (92). No. 5:1327-1335 (2009).

#### Testing Location(s)

#### Released on Behalf of Eurofins by

##### Food Integrity Innovation-Brea

Robert Grahn - Manager

Eurofins Food Chemistry Testing US, Inc.  
2951 Saturn Street  
Unit C  
Brea CA 92821  
800-675-8375

##### Food Integrity Innovation-Madison

Edward Ladwig - President Eurofins Food  
Chemistry Testing Madison

Eurofins Food Chemistry Testing Madison, Inc.  
3301 Kinsman Blvd  
Madison WI 53704  
800-675-8375



2918.01

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.

**To** CV Sciences Inc.-COD  
10070 Barnes Canyon Rd  
San Diego, CA, 92121  
T 858-500-7744

**REPORT #** 94613-1  
**Date** 2020-12-18  
**Received** 2020-12-16

**FP-20-0762 CV DEFENSE IMMUNITY CAPSULES; Lot# 09524329 (94613-1)**

Test	Specification	Test Result	Method	Analyst	Date	Loc.
Palmitoylethanolamide	NLT 600 mg/2 capsules	700 mg	Client's method (HPLC-UV	MK	2020-12-18	AB

\*Based on a unit weight of 1042 mg/2 cap.

**Labs-Mart Testing Locations:**

AB - 1938 94 Street, Edmonton, AB, Canada

Prepared by



Chris (Chih-Wei) Wang, Account Manag

Approved by



Mohammadrafik Shaikh, QC Specialist

Date 2020-12-18

Raw data are archived by Labs-Mart Inc. Results shown relate only to samples submitted and tested.  
Labs-Mart Inc. assumes no liability for the use of the results by any party.

Testing may be completed at other Labs-Mart locations.

Statement of conformity only applies to tests currently presented on our scope of accreditation. All required parts of the standard (17025) applicable to a test laboratory are met. Accreditation is location and parameter specific. The tests listed in this report may not be included in the current scope of accreditation.

The sample(s) were provided by the customer as listed on this report and therefore results reported apply to the samples as received.

This analytical test report shall not be reproduced, except in full, without written permission from Labs-Mart Inc.

**ANALYZED BY:**

Anresco Laboratories  
1375 Van Dyke Avenue,  
San Francisco, CA 94124  
C8-0000052-LIC

**MANUFACTURER:**

CV Sciences  
10070 Barnes Canyon Road suite 100  
SAN DIEGO 92121  
n/a



**SAMPLE INFORMATION**

**Sample No.:** 1066796  
**Product Name:** FP-20-0762 CV Defense Immunity Capsules - 60ct EXP: 11/22  
**Matrix:** Other (Other)  
**Batch #:** 09524329

**Date Collected:** 12/16/2020  
**Date Received:** 12/16/2020  
**Date Reported:** 12/18/2020

**TEST SUMMARY**

**Microbiological Screen:** ✔ Tested  
**Heavy Metals Screen:** ✔ Pass

**Residual Solvent Screen:** ✔ Pass

**MICROBIOLOGICAL SCREEN**

12/18/2020

Analyte	Findings	Units	Method
Standard Plate Count	<10	cfu/g	FDA BAM
Yeast	<10	cfu/g	AOAC 2014.05
Mold	<10	cfu/g	AOAC 2014.05
Coliforms	<10	cfu/g	FDA BAM
Escherichia coli	<10	cfu/g	FDA BAM
Salmonella	Negative	/1g	AOAC 2016.01

**RESIDUAL SOLVENT SCREEN** ✔ Pass

12/18/2020

**Method:** USP OVI<467>

**Instrument:** Gas Chromatography Mass Spectrometry (GC/MS)

Analyte	LOD/LOQ (ppm)	Findings (ppm)	Limit (ppm)	Status
1,2-Dichloroethane	0.40/1.00	ND	1	Pass
Acetone	17/75	ND	5000	Pass
Acetonitrile	1/6	ND	410	Pass
Benzene	0.40/1.00	ND	1	Pass
n-Butane	200/600	ND	5000	Pass
Chloroform	0.40/1.00	ND	1	Pass
Ethanol	22/100	<LOQ	5000	Pass
Ethyl Acetate	9/40	ND	5000	Pass
Ethyl Ether	11/50	ND	5000	Pass
Ethylene Oxide	0.40/1.00	ND	1	Pass
n-Heptane	11/50	ND	5000	Pass
n-Hexane	1/5	ND	290	Pass
Isopropyl Alcohol	11/50	<LOQ	5000	Pass
Methanol	6/25	ND	3000	Pass
Methylene Chloride	0.40/1.00	ND	1	Pass
n-Pentane	17/75	ND	5000	Pass
Propane	125/250	ND	5000	Pass
Toluene	3/15	ND	890	Pass
Total Xylenes	1/3	ND	2170	Pass
Trichloroethylene	0.40/1.00	ND	1	Pass

**HEAVY METALS SCREEN** ✔ Pass

12/18/2020

**Method:** MF 24E020

**Instrument:** Inductively Coupled Plasma Mass Spectrometry (ICP-MS)

Analyte	LOD/LOQ (µg/g)	Findings (µg/g)	Limit (µg/g)	Status
Arsenic	0.02/0.05	0.07	5	Pass
Cadmium	0.02/0.05	ND	3	Pass
Mercury	0.02/0.05	ND	1	Pass
Lead	0.02/0.05	0.11	0.4	Pass

(-) = Not Tested, ND = None Detected, <LOQ = Below Limit of Quantitation, LOD = Limit of Detection

Reported by

  


**Vu Lam**  
Lab Co Director



Scan to verify