



CV SCIENCES™

Certificate of Analysis
July 27, 2020

Sample ID: FP-20-0479
Product Name: CV Acute Immunity Liquid – 3 fl. oz (90mL)
Lot #: 50151
Expiration: 07/23
Storage Conditions: Room temperature, cool, dry place.

<u>Criteria</u>	<u>Specification</u>	<u>Method</u>	<u>cGMP Requirements</u>	<u>Results</u>
Consistency	Thick, syrupy liquid	Organoleptic	Composition Identity	Complies
Color	Brown	Organoleptic	Identity	Complies
Aroma	Berry	Organoleptic	Identity	Complies
Assay	Forsythin ≥0.05%	HPLC-UV	Strength Purity Identity	0.068%
	Chlorogenic Acid ≥0.1%	HPLC-UV		0.184%
	Baicalin, Baicalein, Wogonin-Total ≥0.5%	HPLC-UV		1.695%
Micro				
TAPC	<10,000 cfu/g	3M Petrifilm	Purity	Complies
Total Yeast & Mold	<1000cfu/g	3M Petrifilm	Purity	Complies
Pseudomonas	Negative in 10g	3M Petrifilm	Purity	Complies
E. Coli	Negative in 10g	3M Petrifilm	Purity	Complies
Salmonella	Negative in 10g	3M Petrifilm	Purity	Complies
Coliforms	<1000 cfu/g	3M Petrifilm	Purity	Complies
Water Activity	≤0.85	Water activity meter	Purity	0.571
Pesticide Residue	Passes USP Chapter 561 list and limits	HPLC-MS GC-MS	Limits on contaminants	Complies
Residual Solvents	Passes USP chapter 467	GC-MS	Limits on contaminants	Complies
Heavy Metals				
Arsenic	NMT 0.21 ppm	ICP-MS	Limits on contaminants	<0.05 ppm
Cadmium	NMT 0.086 ppm	ICP-MS	Limits on contaminants	Not Detected
Lead	NMT 0.0105 ppm	ICP-MS	Limits on contaminants	Not Detected
Mercury	NMT 1 ppm	ICP-MS	Limits on contaminants	Not Detected

Hayley Palmer

JUL 27 2020

Vandana

JUL 27 2020

Prepared By
Hayley Palmer, B.S.
QC Lab Assistant

Date

Reviewed By
Vandana Kothari, M.S., B.Pharm.
QC Supervisor

Date

CERTIFICATE OF ANALYSIS

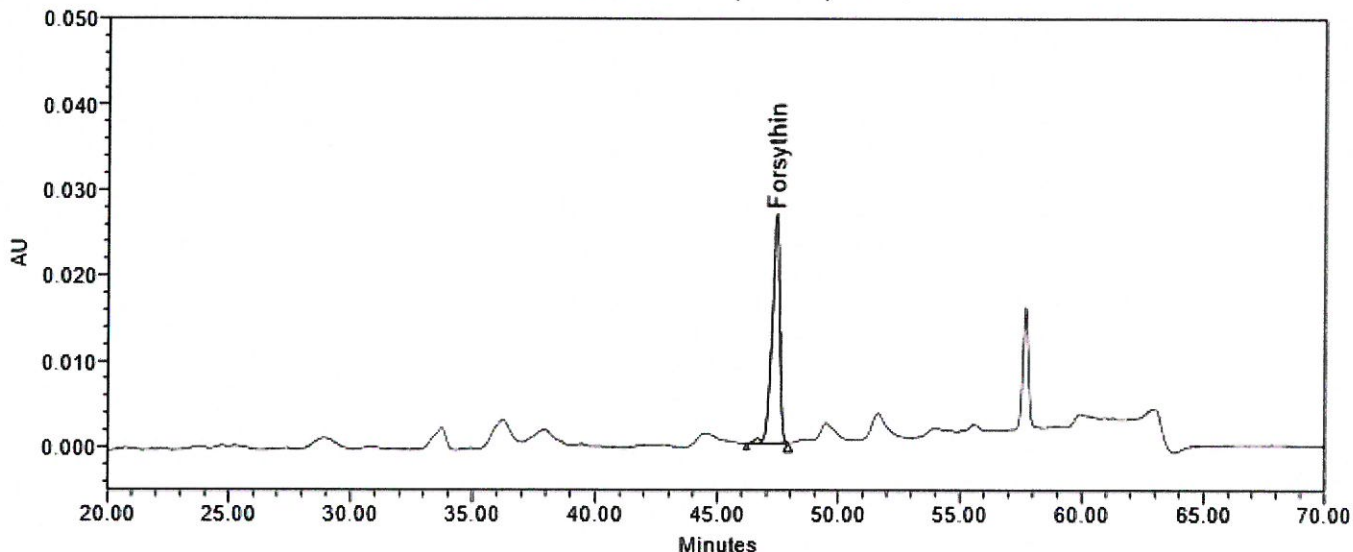


12661 HOOVER STREET GARDEN GROVE, CA 92841 | P. 714-754-4372 | F. 714-668-9972 | WWW.ALKEMIST.COM

Report Issued To: CV Sciences
10070 Barnes Canyon Rd.
San Diego CA 92121-2722
USA

Sample Name: FP-20-0479 CV Acute - 3 fl. Oz
Description: Finished product; 90 ml fluid [brown glass bottle / tan box]
Lot #: 50151
AL #: 20197VWE_1
Analysis ID: 140031
Received: 07/15/20

Determination of Forsythin by HPLC



Ret. Time (min)	Compound Name	Prep 1 (%)	Prep 2 (%)	Average (%)	Specification	Result
47.2	Forsythin	0.068	0.068	0.068	≥ 0.05%	Pass

Chromatographic Conditions:

Method: PPRC - Forsythia
Column: AP193 Gemini 5µ C18 110A (250 x 4.6 mm)
Temperature: 25°C
Flow Rate: 1 mL/min
Injection Volume: 10 µL
UV Detection: 235 nm
Mobile Phase: Water
Methanol
HPLC Instrument: UPLC_1

Sample Preparation:

Transferred approximately 300 mg of sample into a 5 mL volumetric flask. Filled to volume with methanol. Vortexed 30 seconds and sonicated for 10 minutes at room temperature. Let cool. Mixed by inversion. Filtered into an HPLC vial for analysis.

Report Summary:

Conclusion: This "FP-20-0479 CV Acute - 3 fl. Oz" test sample contains an average of 0.07% forsythin on the as is basis.
OOS Reference: N/A
Notebook Reference: LC125 p. 144



Kirtal Chopra
Laboratory Manager

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Date: 2020.07.21 16:18:34 -07'00'
Adobe Acrobat version:
2020.009.20074

Analysis Date : 07/21/20

Analyzed By: C Deneuve

Authorized By: Kirtal Chopra, Laboratory
Manager

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CERTIFICATE OF ANALYSIS

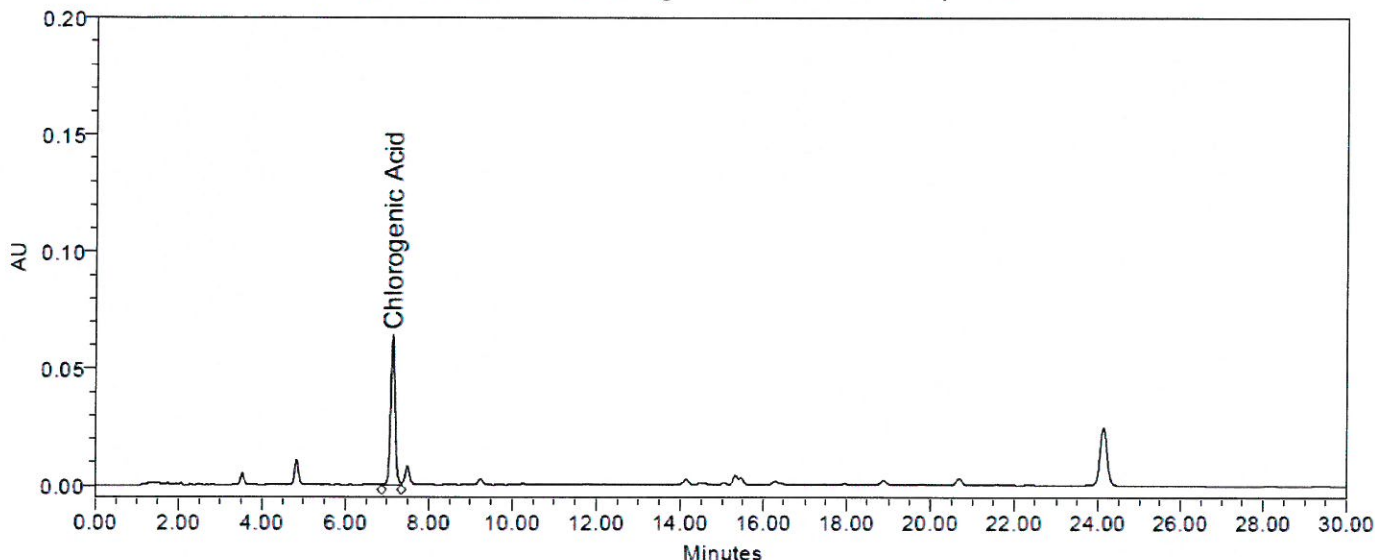


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Report Issued To: CV Sciences
10070 Barnes Canyon Rd.
San Diego CA 92121-2722
USA

Sample Name: FP-20-0479 CV Acute - 3 fl. Oz
Description: Finished product; 90 ml fluid [brown glass bottle / tan box]
Lot #: 50151
AL #: 20197VWE_2
Analysis ID: 140165
Received: 07/15/20

Determination of Chlorogenic Acids Content by HPLC



Ret. Time (min)	Compound Name	Prep 1 (%)	Prep 2 (%)	Average (%)	Specification	Result
7.1	Chlorogenic Acid	0.183	0.185	0.184	NLT 0.1%	Pass

Chromatographic Conditions:

Method: ATM-815-0109
Column: AP205 Luna 5µ C18 (2) 100A (250 x 4.6 mm)
Temperature: 35°C
Flow Rate: 1.5 mL/min
Injection Volume: 10 µL
UV Detection: 330 nm
Mobile Phase: 0.1% Formic acid in 25% Acetonitrile
0.1% Formic acid in 10% Acetonitrile
HPLC Instrument: Alliance_2

Sample Preparation:

Weighed 625 mg of sample into a 50 mL volumetric flask. Added 30 mL of 2% formic acid in 10% acetonitrile, vortexed for 30 seconds, and sonicated for 30 minutes at room temperature. Cooled to room temperature and filled to volume with 2% formic acid in 10% acetonitrile. Filtered through 0.45 µm PTFE filter into HPLC vial for analysis.

Report Summary:

Conclusion: This "FP-20-0479 CV Acute - 3 fl. Oz" test sample contains an average of 0.2% chlorogenic acid on the as is basis.
OOS Reference: N/A
Notebook Reference: LC145 p.124



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Date: 2020.07.23 16:55:56 -07'00'
Adobe Acrobat version:
2020.009.20074

Analysis Date : 07/23/20

Analyzed By: D Jimenez

Authorized By: Celine Deneuve,
Analytical Chemistry Supervisor

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CERTIFICATE OF ANALYSIS

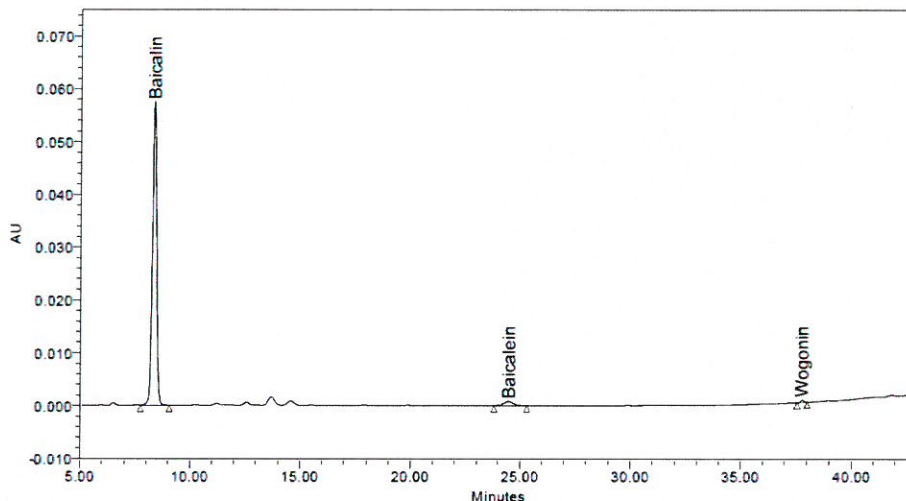


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Report Issued To: CV Sciences
10070 Barnes Canyon Rd.
San Diego CA 92121-2722
USA

Sample Name: FP-20-0479 CV Acute - 3 fl. Oz
Description: Finished product; 90 ml fluid [brown glass bottle / tan box]
Lot #: 50151
AL #: 20197VWE_3
Analysis ID: 140038
Received: 07/15/20

Determination of Baicalin, Baicalein and Wogonin Content by HPLC



Ret. Time (min)	Compound Name	Prep 1 (%)	Prep 2 (%)	Average (%)	Specification	Result
8.3	Baicalin	1.680	1.674	1.677	N/A	N/A
24.5	Baicalein	0.018	0.018	0.018	N/A	N/A
37.8	Wogonin	BLOQ	BLOQ	BLOQ	N/A	N/A
	Total	1.698	1.692	1.695	≥0.5%	Pass

Chromatographic Conditions:

Method: ATM-815-0048
Column: AP279 Zorbax SB-C18 (250 x 4.6 mm)
Temperature: 30°C
Flow Rate: 1 mL/min
Injection Volume: 5 µL
UV Detection: 277 nm
Mobile Phase: 0.1% Phosphoric Acid
Methanol
HPLC Instrument: Alliance_3

Sample Preparation:

Transferred approximately 150 mg of sample into a 50 mL volumetric flask. Added 2.0 mL of dimethyl sulfoxide and 2.0 mL of water. Sonicated for 10 minutes at room temperature. Added 30 mL of methanol and sonicated for 10 minutes at room temperature. Let cool and filled to volume with methanol. Filtered through a 0.45 µm PTFE syringe filter into an HPLC vial for analysis.

Report Summary:

Conclusion: This "FP-20-0479 CV Acute - 3 fl. Oz" test sample contains an average of 1.7% baicalin on the as is basis.
OOS Reference: N/A
Note: BLOQ = Below Limit Of Quantification
Notebook Reference: LC151 p. 79

Analysis Date : 07/21/20

Analyzed By: A Pham



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DN: cn=Celine Deneuve, o=Alkemist Labs, ou, email=Celine@alkemist.com, c=US
Date: 2020.07.21 16:18:11 -0700
Adobe Acrobat version: 2020.009.20074

Authorized By: Celine Deneuve,
Analytical Chemistry Supervisor

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July 17, 2020

CV SCIENCES, INC.

Attn: Vandana Kothari
10070 Barnes Canyon Road, Suite 100
San Diego, CA 92121

Order No. 514355
Sample No. 1053296

SAMPLE INFORMATION

Description FP-20-0479 CV Acute - 3 fl. oz
Lot Number 50151
Category (Type) Other
Received July 15, 2020

ANALYTICAL RESULTS

Analysis Date July 15, 2020 to July 17, 2020

Analyte	Method	Finding	Units
Standard Plate Count	FDA BAM	<10	cfu/g
Yeast	AOAC 2014.05	<10	cfu/g
Mold	AOAC 2014.05	<10	cfu/g
Coliforms	FDA BAM - ECC AGAR	<10	cfu/g
Escherichia Coli	FDA BAM - ECC AGAR	<10	cfu/g

Reported by
Anresco, Inc.



Allen Zhu
Analyst

July 17, 2020

July 16, 2020

CV SCIENCES, INC.

Attn: Vandana Kothari
10070 Barnes Canyon Road, Suite 100
San Diego, CA 92121

Order No. 514355
Sample No. 1053296

SAMPLE INFORMATION



Description FP-20-0479 CV Acute - 3 fl. oz
Lot Number 50151
Category (Type) Other
Received July 15, 2020

ANALYTICAL RESULTS

Instrument Decagon
Method MF 14G051
Analysis Date July 15, 2020 to July 16, 2020

Analyte	Finding	Units
Water Activity	0.571	%

Reported by
Anresco, Inc.



Eric Tam
Senior Chemist

July 16, 2020

Certificate of Analysis

CV Sciences Inc

2688 S Rainbow Blvd Suite B
Las Vegas Nevada 89146 United States

Sample Name:	FP-20-0479 CV Acute - 3 fl. oz	Eurofins Sample:	9678091
Project ID	CV_SCIENCE-20200714-0004	Receipt Date	22-Jul-2020
PO Number	CVD	Login Date	14-Jul-2020
Lot Number	50151	Date Started	23-Jul-2020
Sample Serving Size		Sampled	Sample results apply as received
		Online Order	12836-13D09422

Analysis	Limit	Result	Pass/Fail
Bromide per USP <561>			
Bromide, inorganic (calculated as Bromide Ion)	125 mg/kg	<125 mg/kg	Pass
Total Content of Dithiocarbamates (DTCs) expressed as CS2 per USP <561>			
Total Content of Dithiocarbamates (DTCs) expressed as CS2	2 mg/kg	<2 mg/kg	Pass
USP <561> Pesticides			
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 mg/kg	Pass
Deltamethrin	0.5 mg/kg	<0.5 mg/kg	Pass
Diazinon	0.5 mg/kg	<0.5 mg/kg	Pass
Dichlofluanid	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
Endosulfan (sum of isomers and endosulfan sulfate)	3 mg/kg	<3 mg/kg	Pass

Certificate of Analysis

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Las Vegas Nevada 89146 United States

Sample Name:	FP-20-0479 CV Acute - 3 fl. oz	Eurofins Sample:	9678091
Project ID	CV_SCIENCE-20200714-0004	Receipt Date	22-Jul-2020
PO Number	CVD	Login Date	14-Jul-2020
Lot Number	50151	Date Started	23-Jul-2020
Sample Serving Size		Sampled	Sample results apply as received
		Online Order	12836-13D09422

Analysis	Limit	Result	Pass/Fail
USP <561> Pesticides			
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
Fenclorphos (sum of fenclorphos and fenclorphos-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
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

Certificate of Analysis

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2688 S Rainbow Blvd Suite B
Las Vegas Nevada 89146 United States

Sample Name:	FP-20-0479 CV Acute - 3 fl. oz	Eurofins Sample:	9678091
Project ID	CV_SCIENCE-20200714-0004	Receipt Date	22-Jul-2020
PO Number	CVD	Login Date	14-Jul-2020
Lot Number	50151	Date Started	23-Jul-2020
Sample Serving Size		Sampled	Sample results apply as received
		Online Order	12836-13D09422

Analysis	Limit	Result	Pass/Fail
USP <561> Pesticides			
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
Vinclozolin	0.4 mg/kg	<0.4 mg/kg	Pass

Method References

Testing Location

Bromide per USP <561> (MEBR_PKG)

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

Certificate of Analysis

CV Sciences Inc

2688 S Rainbow Blvd Suite B
Las Vegas Nevada 89146 United States

Method References

Testing Location

Bromide per USP <561> (MEBR_PKG)

Food Integrity Innovation-Madison

3301 Kinsman Blvd Madison, WI 53704 USA

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 Rundschr 77 99-101 (1981).

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

Total Content of Dithiocarbamates (DTCs) expressed as CS₂ per USP <561> (DTC_PKG)

Food Integrity Innovation-Madison

3301 Kinsman Blvd Madison, WI 53704 USA

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," *Anal. Bioanal. Chem.*, 392:969-976 (2008).

USP <561> Pesticides (PS01_SA_S)

Food Integrity Innovation-Madison

3301 Kinsman Blvd Madison, WI 53704 USA

Official Methods of Analysis, AOAC Official Method 2007.01, Pesticide Residues in Foods by Acetonitrile Extraction and Partitioning with Magnesium Sulfate, AOAC INTERNATIONAL (modified).

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.

EP Chapter 2.8.13 Pesticide Residues, The European Pharmacopoeia

USP Chapter <561> Articles of Botanical Origin, The United States Pharmacopoeia

Please contact us if you want a complete listing of all compounds determined during testing.

Certificate of Analysis

CV Sciences Inc

2688 S Rainbow Blvd Suite B
Las Vegas Nevada 89146 United States

Testing Location(s)**Released on Behalf of Eurofins by****Food Integrity Innovation-Madison****Edward Ladwig - Director**

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



2918.01

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July 17, 2020

CV SCIENCES, INC.

Attn: Vandana Kothari
 10070 Barnes Canyon Road, Suite
 100
 San Diego, CA 92121

Order No. 514355
 Sample No. 1053296

SAMPLE INFORMATION

Description FP-20-0479 CV Acute - 3 fl. oz
Lot Number 50151
Category (Type) Other
Received July 15, 2020

ANALYTICAL RESULTS

Analysis Residual Solvent Screen ✔ Pass
Instrument Gas Chromatography Mass Spectrometry (GC/MS)
Method USP OVI<467>
Analysis Date July 15, 2020 to July 17, 2020

Analyte	LOD / LOQ (µg/g)	Findings (µg/g)	Limit (µg/g)	Status
1,2-Dichloroethane	0.10/1.00	ND	1.0	Pass
Acetone	11/150	ND	5000	Pass
Acetonitrile	1/12	ND	410	Pass
Benzene	0.10/1.00	ND	1.0	Pass
n-Butane	130/400	ND	5000	Pass
Chloroform	0.10/1.00	ND	1.0	Pass
Ethanol	13/200	4860	5000	Pass
Ethyl Acetate	5/80	ND	5000	Pass
Ethyl Ether	17/50	ND	5000	Pass
Ethylene Oxide	0.50/1.00	ND	1.0	Pass
n-Heptane	15/100	ND	5000	Pass
n-Hexane	2/10	ND	290	Pass
Isopropyl Alcohol	5/100	<LOQ	5000	Pass
Methanol	3/50	ND	3000	Pass
Methylene Chloride	0.50/1.00	ND	1.0	Pass
n-Pentane	26/150	ND	5000	Pass
Propane	170/510	ND	5000	Pass
Toluene	2/30	ND	890	Pass
Total Xylenes	5/90	ND	2170	Pass
Trichloroethylene	0.10/1.00	ND	1.0	Pass

Reported by
Anresco, Inc.

ND = None Detected
 <LOQ = Below Limit of Quantitation
 <LOD = Below Limit of Detection




Darryl Cudia
 Analyst

July 17, 2020

If there are any questions with this report, please contact "compliance@anresco.com".

page 1 of 1

July 16, 2020

CV SCIENCES, INC.

Attn: Vandana Kothari
10070 Barnes Canyon Road, Suite 100
San Diego, CA 92121

Order No. 514355
Sample No. 1053296

SAMPLE INFORMATION

Description FP-20-0479 CV Acute - 3 fl. oz
Lot Number 50151
Category (Type) Other
Received July 15, 2020

ANALYTICAL RESULTS

Analysis Heavy Metals ✔ Pass
Instrument ICP-MS
Method MF 24E020
Analysis Date July 15, 2020 to July 16, 2020

Analyte	LOD/LOQ (µg/g)	Findings (µg/g)	Limit (µg/g)	Status
Arsenic	0.02/0.05	BLOQ	0.21	Pass
Cadmium	0.02/0.05	ND	0.086	Pass
Mercury	0.02/0.05	ND	1	Pass
Lead	0.01/0.025	ND	0.0105	Pass

Reported by
Anresco, Inc.



Eric Tam
Senior Chemist

July 16, 2020

ND = None Detected
<LOQ = Below Limit of Quantitation
<LOD = Below Limit of Detection