ATRIUM INNOVATIONS

CERTIFICATE OF MANUFACTURE

Product Description	:	HEMP EXTRACT VESISORB 30'S	**Date of Manufacture**	:	02/2020
Product Number	:	HEV3	**Date of Expiration:**	:	02/2022
Packaging Lot Number	:	50247320			
Lot Number(s) Bulk	:	8376417 (1110-9150)	**Batch Size**		**1,250,000**
			Total Quantity produced		**1,250,000**

APPROVED BY :

QC Manager

Certificate Of Analysis

HEMP EXTRACT VESISORB 30'S

Lot: 50247320

Product: Hev3

Test: *Escherichia Coli-USP*

Method: *SOP-MIC-004*

Analyte Name	Specification	Result	Unit
E. coli Result	Negative	Negative	N/A

Test: *3M Coliform*

Method: *SOP-MIC-021*

Analyte Name	Specification	Result	Unit
Coliform Total Plate Count	<=10	<10	CFU/g

Test: *3M Staph Petrifilm*

Method: *SOP-MIC--023*

Analyte Name	Specification	Result	Unit
Staph Total Plate Count	<10	<10	CFU/g

Test: *3M Mold & Yeast*

Method: *SOP-MIC-022*

Analyte Name	Specification	Result	Unit
Yeast/Mold Total Plate Count	<=300	<100	CFU/g

Test: *Salmonella USP*

Method: *SOP-MIC-010*

Analyte Name	Specification	Result	Unit
Salmonella Result	Negative	Negative	N/A

Certificate Of Analysis

HEMP EXTRACT VESISORB 30'S

Lot: 50247320

Product: Hev3

Test: *3M TPC*

Method: *SOP-MIC-020*

Analyte Name	Specification	Result	Unit
Total Plate Count	<=10000	<100	CFU/g

Results reported herein pertain only to the items tested and are reported on an "as-is" basis as provided by client. All results are reported on a per pill or per serving of powder or per serving of liquid as appropriate to the physical form of the item tested. This report may not be distributed or reproduced except in full. Client shall not at any time misrepresent the content of this report.

QC and QA electronic signatures indicate COA is effective.

Batch Report Authorzed by: Redmond Doyle

Date Authorized: 12/21/2020 9:23:01 AM

CERTIFICATE OF ANALYSIS

Product: 202523-9999

Lot: 8376417

Hemp Max

Product Name: 202523-9999

Lot Number: 8376417

Test Performed	Specifications	Results
Physical Appearance		
Physical Appearance (SOP-CHR-021)	Conforms	Conforms
Dose Form (SOP-CHR-021)	Softgel	Softgel
Color (SOP-CHR-021)	Brown	Brown
Microbial Analysis		
Staph (SOP-MIC-023 (AOAC 2003.07))	Negative	Negative
Mold Total Plate Count CFU/g (SOP-MIC-022 (AOAC 997.02))	<=1000CFU/g	<10 CFU/g
Yeast Total Plate Count CFU/g (SOP-MIC-022 (AOAC 997.02))	<=1000CFU/g	<10 CFU/g
Escherichia Coli (SOP-MIC-004)	Negative	Negative
Salmonella (SOP-MIC-041)	Negative	Negative
Total Plate Count CFU/g (SOP-MIC-020 (AOAC 990.12))	<=10000CFU/g	<10 CFU/g
Others		
Arsenic ppm (SOP-ICM-001 (ICP-MS))	<2ppm	<LOQ (LOQ< 0.2) ppm
Cadmium ppm (SOP-ICM-001 (ICP-MS))	<2ppm	<LOQ (LOQ< 0.05) ppm
Lead ppm (SOP-ICM-001 (ICP-MS))	<0.144ppm	<LOQ (LOQ< 0.025) ppm
Mercury ppm (SOP-ICM-001 (ICP-MS))	<0.01ppm	<LOQ (LOQ< 0.05) ppm
Gluten ppm (SOP-GEN-038)	<10ppm	<LOQ (LOQ<10) ppm
Aflatoxin ppb (SOP-AFL-002)	<10ppb	0.00 ppb

Product Name: 202523-9999

Lot Number: 8376417

Test Performed	Specifications	Results
QC and QA electronic signatures indicate COA is effective.		
Batch Authorized By:		Authorized On:
Sprague, Don		03-Aug-2020

Innovatical Laboratories, LLC.
5555 W Brooks St.
Montclair, CA 91763
Tel 909-230 6210
Fax 909-230 6211
www.ilab-us.com

CoA # 20071728.1
CoA Date 07/31/2020
CoA Status Final

CERTIFICATE OF ANALYSIS

Customer	Atrium Innovations	**Date Received**	7/9/2020
Address	RIDC Park West 112 Technology Drive Pittsburgh, PA 15275	**Condition**	Good
		Temp	Ambient
Sample Name	202523-9999	**PO #**	
Sample Lot #	8376417 THC Detection Limit: 0.01%	**Remarks**	

Analysis	Specification	Test Result	Test Method	Test Date
Cannabinoids				
Cannabidiol (CBD)	N/A	26.8mg / softgel	HPLC/UPLC	07/10/2020
Cannabidivarinic Acid (CBDVA)	N/A	Not Detected	HPLC/UPLC	as above
Cannabidivarin (CBDV)	N/A	0.153mg / softgel	HPLC/UPLC	as above
Cannabidiolic Acid (CBDA)	N/A	Not Detected	HPLC/UPLC	as above
Cannabigerol (CBG)	N/A	Not Detected	HPLC/UPLC	as above
Cannabinol (CBN)	N/A	Not Detected	HPLC/UPLC	as above
Tetrahydrocannabinol (THC)	N/A	Not Detected	HPLC/UPLC	as above
delta-8 Tetrahydrocannabinol	N/A	Not Detected	HPLC/UPLC	as above
Cannabichromene (CBC)	N/A	0.121mg / softgel	HPLC/UPLC	as above
Tetrahydrocannabinolic (THC-A)	N/A	Not Detected	HPLC/UPLC	as above
Terpenes				
alpha-Pinene	N/A	0.01mg / softgel	GC	07/15/2020
Camphene	N/A	Not Detected	GC	as above
ß-myrcene	N/A	0.05mg / softgel	GC	as above
ß-Pinene	N/A	Not Detected	GC	as above
3-Carene	N/A	Not Detected	GC	as above
alpha-Terpinene	N/A	Not Detected	GC	as above
Ocimene	N/A	Not Detected	GC	as above
Limonene	N/A	0.03mg / softgel	GC	as above
p-Cymene	N/A	Not Detected	GC	as above
ß-Ocimene	N/A	Not Detected	GC	as above
Eucalyptol	N/A	0.01mg / softgel	GC	as above
gamma-Terpinene	N/A	Not Detected	GC	as above
Terpinolene	N/A	Not Detected	GC	as above
Linalool	N/A	Not Detected	GC	as above
Isopulegol	N/A	Not Detected	GC	as above
Geraniol	N/A	Not Detected	GC	as above
ß-Caryophyllene	N/A	13.14mg / softgel	GC	as above
alpha-Humulene	N/A	0.26mg / softgel	GC	as above
Nerolidol 1	N/A	0.15mg / softgel	GC	as above
Nerolidol 2	N/A	0.32mg / softgel	GC	as above
Guaiol	N/A	0.54mg / softgel	GC	as above
Caryophyllene oxide	N/A	0.08mg / softgel	GC	as above
alpha-Bisabolol	N/A	0.94mg / softgel	GC	as above

Authorized by 07/31/2020
Guy Weerasekera, Ph.D. / Lab Director

These results apply only to the items tested. This certificate of analysis shall not be reproduced except in full without written consent of iLab.
Estimation of uncertainty of measurement is available upon request.

Bia Diagnostics
480 Hercules Dr
Colchester, VT
05446
(802) 540 0148

Results Posted: 17:00 ES 07-08-2020

Report ID: 200708AO

CERTIFICATE OF ANALYSIS

Company Name	Atrium
Customer ID	160620-0
Date Arrived	7/8/2020

Sample ID	Description
200708AO	202523-9999-8376417 HEMPMAX SOFTGEL

Gluten-Hydrolytes Allergen Analysis

R-Biopharm C ELISA Competitive R7021
Lot # 12429 Exp. FE2021

Run By: LEM

LOQ: 10ppm

Results: <10ppm

Spike ID: N/A

Recovery: N/A%

For estimates of measurement uncertainties, please contact Bia Diagnostics.

Results apply to the samples as received.
The report shall not be reproduced except in full without the approval of the laboratory.

Certified By: Thomas A. Grace

Thomas A Grace (Laboratory Director, Bia Diagnostics)

Certificate of Analysis

Product Name:	202523-9999
Lot Number:	8376417

Test Performed

Residual Solvents <USP 467>

	USP Limit	Result
Residual Solvents - Class 1		
1,1-Dichloroethene	≤8 ppm	Pass
1,1,1-Trichloroethane	≤1500 ppm	Pass
1,2-Dichloroethane	≤5 ppm	Pass
Benzene	≤2 ppm	Pass
Carbon Tetrachloride	≤4 ppm	Pass
Residual Solvents - Class 2A		
cis-1,2-Dichloroethene	≤1870 ppm	Pass
trans-1,2-Dichloroethene	≤1870 ppm	Pass
1,4-Dioxane	≤380 ppm	Pass
Acetonitrile	≤410 ppm	Pass
Chlorobenzene	≤360 ppm	Pass
Cumene	≤70 ppm	Pass
Cyclohexane	≤3880 ppm	Pass
Ethylbenzene	≤369 ppm	Pass
Methanol	≤3000 ppm	Pass
Methylcyclohexane	≤1180 ppm	Pass
Methylene Chloride	≤600 ppm	Pass
m-Xylene/*p*-Xylene	≤1606 ppm	Pass
o-Xylene	≤196 ppm	Pass
Tetrahydrofuran	≤720 ppm	Pass
Toluene	≤890 ppm	Pass

Certificate of Analysis

Product Name:	202523-9999
Lot Number:	8376417

Test Performed

Residual Solvents <USP 467>

	USP Limit	Result
Residual Solvents - Class 2B		
1,2-Dimethoxyethane	≤100 ppm	Pass
Chloroform	≤60 ppm	Pass
n-Hexane	≤290 ppm	Pass
Methylbutylketone	≤50 ppm	Pass
Nitromethane	≤50 ppm	Pass
Pyridine	≤200 ppm	Pass
Tetralin	≤100 ppm	Pass
Trichloroethylene	≤80 ppm	Pass

QC electronic signature indicates COA is effective.
Batch Authorized By: Lab Manager, HVL, LLC

Authorized On: 7/15/2020

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MERIEUX NutriSciences

Silliker JR Laboratories, ULC

106-8255 North Fraser Way, Burnaby, BC V3N 0B9
Tel. 1-844-277-1738 Fax. 604-432-7768
Email: getresults8@mxns.com

CERTIFICATE OF ANALYSIS

COA No:	BRN-43762434-0
Supersedes:	None
COA Date	7/20/20
Page 1 of 3	

COPY TO:
Dr. Lab Email
HVL, LLC
112 Technology Drive
Pittsburgh, PA 15108

ORIGINAL TO:
Ms. Caitlin Dilal
Senior Microbiologist
HVL, LLC
112 Technology Drive
Pittsburgh, PA 15275

Received From:	Pittsburgh, PA
Received Date:	7/9/20
P.O.# / ID:	200707753
Location of Test: (except where noted)	Burnaby, BC

Analytical Results

Desc. 1: 202523-9999 **Temp Rec'd (°C):** 20.0 **Condition Rec'd:** NORMAL **Laboratory ID:** 401223871
Desc. 2: 8376417
Desc. 3: Hempchoice softgel

Analyte	Result	Units	In Spec	Min Limit	Max Limit	Method Reference	Test Date	Loc.
Multi Residue Pesticide USP screen						USP/NF Current Ver.	7/20/20	
Comment	Analysis performed on contents of capsule only							
Compounds Detected								
(none detected)								
Compounds Not Detected								
Acephate	<0.1	ppm (w/w)						
Alachlor	<0.05	ppm (w/w)						
Aldrin and Dieldrin (sum per USP)	<0.05	ppm (w/w)						
Azinphos-ethyl	<0.1	ppm (w/w)						
Azinphos-methyl	<1	ppm (w/w)						
Bromophos-ethyl	<0.05	ppm (w/w)						
Bromophos-methyl	<0.05	ppm (w/w)						
Brompropylate	<3	ppm (w/w)						
Chlordane (sum per USP)	<0.05	ppm (w/w)						
Chlorfenvinphos	<0.5	ppm (w/w)						
Chlorpyriphos-ethyl	<0.2	ppm (w/w)						
Chlorpyriphos-methyl	<0.1	ppm (w/w)						
Chlorthal-dimethyl	<0.01	ppm (w/w)						
DDT (sum per USP)	<1	ppm (w/w)						

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Location of Test: (except where noted)	Burnaby, BC

Analytical Results

Analyte	Result	Units	In Spec	Min Limit	Max Limit	Method Reference	Test Date	Loc.
Diazinon	<0.5	ppm (w/w)						
Dichlorvos	<1	ppm (w/w)						
Dicofol	<0.5	ppm (w/w)						
Dimethoate and Omethoate (sum per USP)	<0.1	ppm (w/w)						
Endosulfan (sum per USP)	<3	ppm (w/w)						
Endrin	<0.05	ppm (w/w)						
Etrimiphos	<0.05	ppm (w/w)						
Fenchlorophos (sum per USP)	<0.1	ppm (w/w)						
Fenitrothion	<0.5	ppm (w/w)						
Fenpropathrin	<0.03	ppm (w/w)						
Fensulfothion (sum per USP)	<0.05	ppm (w/w)						
Flucythrinate	<0.05	ppm (w/w)						
Fonofos	<0.05	ppm (w/w)						
Heptachlor (sum per USP)	<0.05	ppm (w/w)						
Hexachlorobenzene	<0.1	ppm (w/w)						
Hexachlorocyclohexane (sum per USP)	<0.3	ppm (w/w)						
Lindane (gamma-hexachlorocyclohexane)	<0.6	ppm (w/w)						
Malathion and Malaoxon (sum per USP)	<1	ppm (w/w)						
Mecarbam	<0.05	ppm (w/w)						
Methacrifos	<0.05	ppm (w/w)						
Methamidophos	<0.05	ppm (w/w)						
Methidathion	<0.2	ppm (w/w)						
Methoxychlor	<0.05	ppm (w/w)						

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Page 3 of 3	

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Received From:	Pittsburgh, PA
Received Date:	7/9/20
P.O.# / ID:	200707753
Location of Test: (except where noted)	Burnaby, BC

Analytical Results

Analyte	Result	Units	In Spec	Min Limit	Max Limit	Method Reference	Test Date	Loc.
Mirex	<0.01	ppm (w/w)						
Parathion-ethyl & Paraoxon-ethyl (sum)	<0.5	ppm (w/w)						
Parathion-methyl & Paraoxon-methyl (sum)	<0.2	ppm (w/w)						
Pendimethalin	<0.1	ppm (w/w)						
Pentachloranisol	<0.01	ppm (w/w)						
Permethrin and isomers (sum per USP)	<1	ppm (w/w)						
Phosmet	<0.05	ppm (w/w)						
Pirimiphos-ethyl	<0.05	ppm (w/w)						
Pirimiphos-methyl (sum per USP)	<4	ppm (w/w)						
Procymidone	<0.1	ppm (w/w)						
Profenofos	<0.1	ppm (w/w)						
Prothiophos	<0.05	ppm (w/w)						
Pyrethrum (sum per USP)	<3	ppm (w/w)						
Quinalophos	<0.05	ppm (w/w)						
Quintozene (sum per USP)	<1	ppm (w/w)						
Tecnazene	<0.05	ppm (w/w)						
Tetradifon	<0.3	ppm (w/w)						
Vinclozolin	<0.4	ppm (w/w)						

C. Hall

Catrin Hall — Laboratory Director

I Customer supplied information * ISO17025 Accredited Analysis

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