



CERTIFICATE OF MANUFACTURE

Page 1 of 1

Product Description	: HEMP MAX PLUS	Date of Manufacture	: 02/2020
Product Number	: 202523-30X	Date of Expiration:	: 02/2022
Packaging Lot Number	: 50247321		
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

Product: 202523-9999

Lot: 8376417

Hemp Max

Product Name: 202523-9999

Lot Number: 8376417

<u>Test Performed</u>	<u>Specifications</u>	<u>Results</u>
<u>Physical Appearance</u>		
Physical Appearance (SOP-CHR-021)	Conforms	Conforms
Dose Form (SOP-CHR-021)	Softgel	Softgel
Color (SOP-CHR-021)	Brown	Brown
<u>Microbial Analysis</u>		
Staph (SOP-MIC-023 (AOAC 2003.07))	Negative	Negative
Mold Total Plate Count CFU/g (SOP-MIC-022 (AOAC 997.02))	≤ 1000 CFU/g	<10 CFU/g
Yeast Total Plate Count CFU/g (SOP-MIC-022 (AOAC 997.02))	≤ 1000 CFU/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))	≤ 10000 CFU/g	<10 CFU/g
<u>Others</u>		
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



Innovational 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	Remarks	
	THC Detection Limit: 0.01%		

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
β-myrcene	N/A	0.05mg / softgel	GC	as above
β-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
β-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
β-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


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.



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

Report ID: 200708AO

Bia Diagnostics

480 Hercules Dr

Colchester, VT

05446

(802) 540 0148

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

Results:

R-Biopharm CELISA Competitive R7021
Lot # 12429 Exp. FE2021

Run By:
LEM

LOQ:
10ppm

<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 (Laboratory Director, Bia Diagnostics)

Wednesday, July 8, 2020

1.802.540.0148

www.BiaDiagnostics.com

Bia Diagnostics Page 1 of 1





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		
<i>cis</i> -1,2-Dichloroethene	≤1870 ppm	Pass
<i>trans</i> -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
<i>m</i> -Xylene/ <i>p</i> -Xylene	≤1606 ppm	Pass
<i>o</i> -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>

	<u>USP Limit</u>	<u>Result</u>
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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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

Multi Residue Pesticide USP screen

Comment

Analysis performed on contents of capsule only

Compounds Detected

(none detected)

Compounds Not Detected

	<u>Result</u>	<u>Units</u>	<u>In Spec</u>	<u>Min Limit</u>	<u>Max Limit</u>	<u>Method Reference</u>	<u>Test Date</u>	<u>Loc.</u>
Acephate	<0.1	ppm (w/w)				USP/NF Current Ver.	7/20/20	
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)						
Bromopropylate	<3	ppm (w/w)						
Chlordane (sum per USP)	<0.05	ppm (w/w)						
Chlorfenvinphos	<0.5	ppm (w/w)						
Chlorpyrifos-ethyl	<0.2	ppm (w/w)						
Chlorpyrifos-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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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

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Analytical Results

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>In Spec</u>	<u>Min Limit</u>	<u>Max Limit</u>	<u>Method Reference</u>	<u>Test Date</u>	<u>Loc.</u>
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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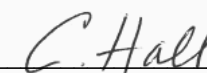
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Analytical Results

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>In Spec</u>	<u>Min Limit</u>	<u>Max Limit</u>	<u>Method Reference</u>	<u>Test Date</u>	<u>Loc.</u>
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)						

Catrin Hall



Laboratory Director

I Customer supplied information * ISO17025 Accredited Analysis

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