



# Certificate of Analysis

**Sample:**AL30327003-005

**Harvest/Lot ID:** 23082-IHY

**Batch#:** VP-SD-IHY-23082

**Seed to Sale#** VP-SD-IHY-23082

**Sample Size Received:** 13 units

**Total Amount:** 3026 units

**Retail Product Size:** 1 gram

**Sampled :** 03/23/23

**PASSED**

Apr 07, 2023 | Bristol Extracts LLC

4376 State Route 64  
Canandaigua, NY, 14424, US

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**PRODUCT IMAGE**

**SAFETY RESULTS**

Pesticides  
**PASSED**

Heavy Metals  
**PASSED**

Microbials  
**PASSED**

Mycotoxins  
**PASSED**

Residuals Solvents  
**PASSED**

Filth  
**NOT TESTED**

Water Activity  
**NOT TESTED**

Moisture  
**NOT TESTED**

Terpenes  
**TESTED**
**MISC.**

**Cannabinoid**
**PASSED**

**Total THC**  
**84.5288%**

**Total CBD**  
**0.1807%**

**Total Cannabinoids**  
**91.8756%**

	(6AR,9R) D10-THC	(6AR,9S) D10-THC	CBC	CBD	CBDA	CBDV	CBG	CBGA	CBN	D8-THC	D9-THC	THCA	THCV
%	<LOQ	<LOQ	1.1289	0.1807	<LOQ	0.1109	4.9961	<LOQ	0.304	<LOQ	84.5288	<LOQ	0.6262
mg/unit	<LOQ	<LOQ	11.289	1.807	<LOQ	1.109	49.961	<LOQ	3.04	<LOQ	845.288	<LOQ	6.262
LOQ	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	%	%	%	%	%	%	%	%	%	%	%	%	%

**Weight:**  
0.1925g

**Analysis Method :** SOP.T.30.031.NY, SOP.T.40.031.NY

**Analyzed Date :** 03/29/23 15:15:49

Full spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with UV detection (HPLC-UV). (Method: SOP.T.30.050 for sample prep and Shimadzu High Sensitivity Method SOP.T.40.020 for analysis. LOQ for all cannabinoids is 1 mg/L).



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# Terpenes

TESTED

Terpenes	LOQ (%)	mg/unit	%	Result (%)	Terpenes	LOQ (%)	mg/unit	%	Result (%)
VALENCENE	0.1	<LOQ	<LOQ		CARYOPHYLLENE OXIDE	0.04	<LOQ	<LOQ	
ALPHA-PINENE	0.1	1	0.1		BORNEOL	0.04	1	0.1	
TRANS-NEROLIDOL	0.1	<LOQ	<LOQ		BETA-CARYOPHYLLENE	0.04	9	0.9	
CAMPENE	0.1	<LOQ	<LOQ		ALPHA-HUMULENE	0.04	<LOQ	<LOQ	
SABINENE	0.1	<LOQ	<LOQ		ALPHA-CEDRENE	0.04	<LOQ	<LOQ	
BETA-PINENE	0.1	2	0.2		ALPHA-BISABOLOL	0.04	3	0.3	
BETA-MYRCENE	0.1	12	1.2		ALPHA TERPINEOL	0.04	1	0.1	
PULEGONE	0.1	<LOQ	<LOQ		Weight:				
ALPHA-PHELLANDRENE	0.1	<LOQ	<LOQ		1.0167g				
3-CARENE	0.1	<LOQ	<LOQ		Analysis Method : SOP.T.30.064.NY, SOP.T.40.064.NY				
NEROL	0.1	<LOQ	<LOQ		Analyzed Date : 03/30/23 08:17:25				
ALPHA-TERPINENE	0.1	<LOQ	<LOQ		Terpenoid profile screening is performed using GC-MS/MS TO-8040 with Liquid Injection (Gas Chromatography - Mass Spectrometer Triple Quad) which can screen 37 terpenes using Method SOP.T.40.091 Terpenoid Analysis Via GC-MS/MS.				
LINALOOL	0.1	2	0.2						
LIMONENE	0.1	12	1.2						
EUCALYPTOL	0.1	<LOQ	<LOQ						
ISOBORNEOL	0.1	<LOQ	<LOQ						
OCIMENE	0.1	<LOQ	<LOQ						
GAMMA TERPINEOL	0.1	<LOQ	<LOQ						
HEXAHYDROTHYMOL	0.1	<LOQ	<LOQ						
SABINENE HYDRATE	0.04	<LOQ	<LOQ						
GUAIOL	0.04	<LOQ	<LOQ						
TERPINOLENE	0.04	<LOQ	<LOQ						
GERANYL ACETATE	0.04	1	0.1						
FENCHONE	0.04	<LOQ	<LOQ						
GERANIOL	0.04	<LOQ	<LOQ						
GAMMA-TERPINENE	0.04	<LOQ	<LOQ						
FENCHYL ALCOHOL	0.04	<LOQ	<LOQ						
ISOPULEGOL	0.04	1	0.1						
CAMPHOR	0.04	<LOQ	<LOQ						
CIS-NEROLIDOL	0.04	1	0.1						
CEDROL	0.04	<LOQ	<LOQ						
Total (%)				4.6					



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Sample Method : SOP Client Method

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<div>  <b>Pesticides</b> </div>						<div> <b>PASSED</b> </div>					
Pesticide	LOQ	Units	Action Level	Pass/Fail	Result	Pesticide	LOQ	Units	Action Level	Pass/Fail	Result
PYRETHRINS, TOTAL	0.1	ppm	1	PASS	<LOQ	PACLOBUTRAZOL	0.1	ppm	0.4	PASS	<LOQ
AZADIRACHTIN	0.1	ppm	1	PASS	<LOQ	PHOSMET	0.1	ppm	0.2	PASS	<LOQ
INDOLE-3-BUTYRIC ACID	0.1	ppm	1	PASS	<LOQ	PRALLETHRIN	0.1	ppm	0.2	PASS	<LOQ
MYCLOBUTANIL	0.1	ppm	0.2	PASS	<LOQ	PROPICONAZOLE	0.1	ppm	0.4	PASS	<LOQ
PIPERONYL BUTOXIDE	0.1	ppm	2	PASS	<LOQ	PROPOXUR	0.1	ppm	0.2	PASS	<LOQ
ABAMECTIN B1A	0.1	ppm	0.5	PASS	<LOQ	PYRIDABEN	0.1	ppm	0.2	PASS	<LOQ
ACEPHATE	0.1	ppm	0.4	PASS	<LOQ	SPINETORAM, TOTAL	0.1	ppm	1	PASS	<LOQ
ACEQUINOCYL	0.1	ppm	2	PASS	<LOQ	SPINOSAD, TOTAL	0.1	ppm	0.2	PASS	<LOQ
ACETAMIPRID	0.1	ppm	0.2	PASS	<LOQ	SPIROMESIFEN	0.1	ppm	0.2	PASS	<LOQ
ALDICARB	0.1	ppm	0.4	PASS	<LOQ	SPIROTETRAMAT	0.1	ppm	0.2	PASS	<LOQ
AZOXYSTROBIN	0.1	ppm	0.2	PASS	<LOQ	SPIROXAMINE	0.1	ppm	0.2	PASS	<LOQ
CHLORMEQUAT CHLORIDE	0.1	ppm	1	PASS	<LOQ	TEBUCONAZOLE	0.1	ppm	0.4	PASS	<LOQ
BIFENAZATE	0.1	ppm	0.2	PASS	<LOQ	THIACLOPRID	0.1	ppm	0.2	PASS	<LOQ
BIFENTHRIN	0.1	ppm	0.2	PASS	<LOQ	THIAMETHOXAM	0.1	ppm	0.2	PASS	<LOQ
CARBARYL	0.1	ppm	0.2	PASS	<LOQ	TRIFLOXYSTROBIN	0.1	ppm	0.2	PASS	<LOQ
COUMAPHOS	0.1	ppm	1	PASS	<LOQ	CAPTAN *	0.1	ppm	1	PASS	<LOQ
CHLORPYRIFOS	0.1	ppm	0.2	PASS	<LOQ	CHLORDANE *	0.1	ppm	1	PASS	<LOQ
DAMINOZIDE	0.1	ppm	1	PASS	<LOQ	CHLORFENAPYR *	0.1	ppm	1	PASS	<LOQ
BOSCALID	0.1	ppm	0.4	PASS	<LOQ	CYFLUTHRIN *	0.1	ppm	1	PASS	<LOQ
CARBOFURAN	0.1	ppm	0.2	PASS	<LOQ	CYPERMETHRIN *	0.1	ppm	1	PASS	<LOQ
CHLORANTRANILIPROLE	0.1	ppm	0.2	PASS	<LOQ	METHYL PARATHION *	0.1	ppm	0.2	PASS	<LOQ
CLOFENTHIZINE	0.1	ppm	0.2	PASS	<LOQ	MGK-264 *	0.1	ppm	0.2	PASS	<LOQ
DIAZINON	0.1	ppm	0.2	PASS	<LOQ	PENTACHLORONITROBENZENE *	0.1	ppm	1	PASS	<LOQ
DICHLORVOS	0.1	ppm	1	PASS	<LOQ						
DIMETHOATE	0.1	ppm	0.2	PASS	<LOQ						
DIMETHOMORPH	0.1	ppm	1	PASS	<LOQ						
ETHOPROPHOS	0.1	ppm	0.2	PASS	<LOQ						
ETOFENPROX	0.1	ppm	0.4	PASS	<LOQ						
ETOXAZOLE	0.1	ppm	0.2	PASS	<LOQ						
FENHEXAMID	0.1	ppm	1	PASS	<LOQ						
FENOXYCARB	0.1	ppm	0.2	PASS	<LOQ						
FENPYROXIMATE	0.1	ppm	0.4	PASS	<LOQ						
FIPRONIL	0.1	ppm	0.4	PASS	<LOQ						
FLONICAMID	0.1	ppm	1	PASS	<LOQ						
FLUDIOXONIL	0.1	ppm	0.4	PASS	<LOQ						
HEXYTHIAZOX	0.1	ppm	1	PASS	<LOQ						
IMAZALIL	0.1	ppm	0.2	PASS	<LOQ						
IMIDACLOPRID	0.1	ppm	0.4	PASS	<LOQ						
KRESOXIM METHYL	0.1	ppm	0.4	PASS	<LOQ						
MALATHION	0.1	ppm	0.2	PASS	<LOQ						
METALAXYL	0.1	ppm	0.2	PASS	<LOQ						
METHIOCARB	0.1	ppm	0.2	PASS	<LOQ						
METHOMYL	0.1	ppm	0.4	PASS	<LOQ						
MEVINPHOS	0.1	ppm	1	PASS	<LOQ						
NALED	0.1	ppm	0.5	PASS	<LOQ						
OXAMYL	0.1	ppm	1	PASS	<LOQ						

 Weight:  
 0.5081g

Analysis Method : SOP.T.40.104.NY, SOP.T30.104.NY and SOP.T.40.154.NY

Analyzed Date : 03/29/23 14:17:45

Pesticide screen is performed using LC-MS which can screen down to below single digit ppb concentrations for regulated Pesticides. Currently we analyze for 57 Pesticides. (Method: SOP.T.30.060 Sample Preparation for Pesticides Analysis via LCMSMS and SOP.T40.060 Procedure for Pesticide Quantification Using LCMS).

 Weight:  
 0.5081g

Analysis Method : SOP.T.40.154.NY

Analyzed Date : 03/29/23 14:18:08

Testing for agricultural agents is performed utilizing Liquid Chromatography Triple-Quadrupole Mass Spectrometry and Gas Chromatography Triple-Quadrupole Mass Spectrometry in accordance with F.S. Rule 64ER20-39.





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Sample Size Received : 13 units

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Sample Method : SOP Client Method

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## Residual Solvents

**PASSED**

Solvents	LOQ	Units	Action Level	Pass/Fail	Result
HEXANE, TOTAL	208.4	ppm	290	PASS	<LOQ
PENTANES, TOTAL	2700	ppm	5000	PASS	<LOQ
BUTANES, TOTAL	1800	ppm	5000	PASS	<LOQ
XYLENES, TOTAL	1171.8	ppm	2170	PASS	<LOQ
PROPANE	900	ppm	5000	PASS	<LOQ
METHANOL	540	ppm	3000	PASS	<LOQ
ETHANOL	900	ppm	5000	PASS	<LOQ
ETHYL ETHER	900	ppm	5000	PASS	<LOQ
ACETONE	180	ppm	5000	PASS	<LOQ
2-PROPANOL	900	ppm	5000	PASS	<LOQ
ACETONITRILE	73.8	ppm	410	PASS	<LOQ
DICHLOROMETHANE	108	ppm	600	PASS	<LOQ
ETHYL ACETATE	900	ppm	5000	PASS	<LOQ
BENZENE	0.45	ppm	2	PASS	<LOQ
N-HEPTANE	900	ppm	5000	PASS	<LOQ
TOLUENE	160.2	ppm	890	PASS	<LOQ
CHLOROFORM	10.8	ppm	60	PASS	<LOQ

 Weight:  
 0.0237g

Analysis Method : SOP.T.40.044.NY

Analyzed Date : 03/29/23 16:20:33

Residual solvents screening is performed using GC-MS which can detect below single digit ppm concentrations. Currently we analyze for 33 Residual solvents. (Method: SOP.T.30.042 Residual Solvents Analysis via GC-MS).



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Sample : AL30327003-005

Harvest/Lot ID: 23082-IHY

Batch# : VP-SD-IHY-23082



Sampled : 03/23/23


Sample Size Received : 13 units

Total Amount : 3026 units

Sample Method : SOP Client Method

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<div>  <b>Microbial</b> <b>PASSED</b> </div>						<div>  <b>Mycotoxins</b> <b>PASSED</b> </div>					
Analyte	LOQ	Units	Result	Pass / Fail	Action Level	Analyte	LOQ	Units	Result	Pass / Fail	Action Level
TOTAL AEROBIC BACTERIA	10	CFU/g	<100	PASS	10000	AFLATOXIN G2	0.0025	ppm	<LOQ	PASS	0.02
TOTAL YEAST AND MOLD	10	CFU/g	<100	PASS	1000	AFLATOXIN G1	0.0025	ppm	<LOQ	PASS	0.02
ESCHERICHIA COLI SHIGELLA SPP			Not Present	PASS		AFLATOXIN B2	0.0025	ppm	<LOQ	PASS	0.02
SALMONELLA SPECIES			Not Present	PASS		AFLATOXIN B1	0.0025	ppm	<LOQ	PASS	0.02
ASPERGILLUS TERREUS			Not Present	PASS		OCHRATOXIN A+	0.01	ppm	<LOQ	PASS	0.02
ASPERGILLUS NIGER			Not Present	PASS		TOTAL AFLATOXINS (B1, B2, G1, G2)	0.0025	ppm	<LOQ	PASS	0.02
ASPERGILLUS FLAVUS			Not Present	PASS		Weight:					
ASPERGILLUS FUMIGATUS			Not Present	PASS		0.5081g					
Weight:						Analysis Method : SOP.T.30.104.NY, SOP.T.40.104.NY					
0.8603g						Analyzed Date : 03/29/23 14:17:55					
Analysis Method : SOP.T.40.058A.NY, SOP.T.40.058B.NY, SOP.T.40.208.NY						Aflatoxins B1, B2, G1, G2, and Ochratoxins A testing using LC-MS. (Method: SOP.T.30.060 for Sample Preparation and SOP.T40.060 Procedure for Mycotoxins Quantification Using LCMS. LOQ 1.0 ppb). Total Aflatoxins (Aflatoxin B1, B2, G1, G2) must be <20µg/Kg. Ochratoxins must be <20µg/Kg.					
Analyzed Date : 03/29/23 09:15:58											

<div>  <b>Heavy Metals</b> <b>PASSED</b> </div>					
Metal	LOQ	Units	Result	Pass / Fail	Action Level
ANTIMONY	0.02	ug/g	<LOQ	PASS	2
ARSENIC	0.02	ug/g	<LOQ	PASS	0.2
CADMIUM	0.02	ug/g	<LOQ	PASS	0.3
CHROMIUM	0.02	ug/g	0.2292	PASS	110
COPPER	0.02	ug/g	0.6566	PASS	30
LEAD	0.02	ug/g	<LOQ	PASS	0.5
MERCURY	0.002	ug/g	<LOQ	PASS	0.1
NICKEL	0.02	ug/g	0.253	PASS	2
Weight:					
0.5117g					
Analysis Method : SOP.T.30.084.NY, SOP.T.40.084.NY					
Analyzed Date : 03/28/23 14:49:47					
Heavy Metals screening is performed using ICP-MS (Inductively Coupled Plasma - Mass Spectrometer) which can screen down to below single digit ppb concentrations for regulated heavy metals using Method SOP.T.30.052 Sample Preparation for Heavy Metals Analysis via ICP-MS and SOP.T.40.050 Heavy Metals Analysis via ICP-MS.					