



# Certificate of Analysis

Sample:KN20405014-011

Harvest/Lot ID: 1009

Batch#: 032022-D10-KM

Seed to Sale# N/A

Batch Date: 04/01/22

Sample Size Received: 14 ml

Total Batch Size: N/A

Retail Product Size: 2 ml

Ordered : 04/01/22

Sampled : 04/01/22

Completed: 04/14/22

Sampling Method: N/A

**TESTED**

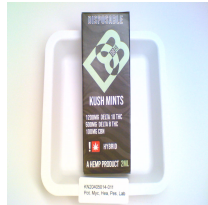
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Apr 14, 2022 | D8-Hi

2232 Dell Range Blvd.  
Cheyenne, WY, 82009, US



PRODUCT IMAGE

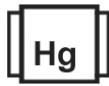


mg D8 per 2ml

SAFETY RESULTS



Pesticides  
**TESTED**



Heavy Metals  
**PASSED**



Microbials  
**PASSED**



Mycotoxins  
**PASSED**



Residuals Solvents  
**PASSED**



Filtration  
**PASSED**



Water Activity  
**NOT TESTED**



Moisture  
**NOT TESTED**



Terpenes  
**TESTED**

MISC.

**Cannabinoid**

**TESTED**



**D8-THC**  
**0.9579%**  
D8-THC/Disposable : 19.158 mg



**D10-THC**  
**70.919%**  
D10-THC/Disposable : 1418.38 mg



**Total Cannabinoids**  
**76.8362%**  
Total Cannabinoids/Disposable : 1536.724 mg

	TOTAL THC	TOTAL CBD	TOTAL CBG	CBDV	CBDA	CBGA	CBG	CBD	THCV	CBN	EXO-THC	D9-THC	DB-THC	D10-THC	CBC	THCA	D8-THCO	D9-THCO	THC-O
%	0.4676	1.703	0.3001	0.0347	0.2323	0.0436	0.2619	1.4993	ND	2.4199	ND	0.4676	0.9579	70.919	ND	ND	ND	ND	ND
mg/ml	4.676	17.03	3.001	0.347	2.323	0.436	2.619	14.993	ND	24.199	ND	4.676	9.579	709.19	ND	ND	ND	ND	ND
LOD	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002
%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%

Analyzed by: 113

Weight: 0.2201g

Extraction date: 04/06/22 10:04:13

Extracted by: 143

**Analysis Method :** Expanded Measurement of Uncertainty: Flower Matrix d9-THC:12.7%, THCa: 9.5%, TOTAL THC 11.1%. These uncertainties represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor k=2 for a normal distribution.

**Analytical Batch :** KN002217POT

**Instrument Used :** HPLC E-SHI-008

**Running on :** N/A

**Reviewed On :** 04/07/22 11:11:48

**Batch Date :** 04/05/22 17:08:19

**Dilution :** 40  
**Reagent :** 081321.R04; 033122.R01; 031822.R11  
**Consumables :** 947.251; 12123-046CC-046  
**Pipette :** N/A

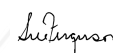
Full spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with UV/PDA detection (HPLC-UV/PDA). (Method: SOP.T.30.031.TN for sample prep and Shimadzu High Sensitivity Method SOP.T.40.020 for analysis.). \*Based on FL action limits.

This report shall not be reproduced, unless in its entirety, without written approval from Kaycha Labs. This report is an Kaycha Labs certification. The results relate only to the material or product analyzed. Test results are confidential unless explicitly waived otherwise. Void after 1 year from test end date. Cannabinoid content of batch material may vary depending on sampling error. IC=In-control QC parameter, NC=Non-controlled QC parameter, ND=Not Detected, NA=Not Analyzed, ppm=Parts Per Million, ppb=Parts Per Billion. Limit of Detection (LoD) and Limit of Quantitation (LoQ) are terms used to describe the smallest concentration that can be reliably measured by an analytical procedure. RPD=Reproducibility of two measurements. Action Levels are State determined thresholds for human safety for consumption and/or inhalation. The result >99% are variable based on uncertainty of measurement (UM) for the analyte. The UM error is available from the lab upon request. The "Decision Rule" for the pass/fail does not include the UM. The limits are based on F.S. Rule 64-4.310.

**Sue Ferguson**

Lab Director

State License # n/a  
ISO Accreditation # 17025:2017



Signature

04/14/22

Signed On



# Certificate of Analysis

**TESTED**

D8-HI

Sample : KN20405014-011  
Harvest/Lot ID: 1009

2232 Dell Range Blvd.  
Cheyenne, WY, 82009, US  
Telephone: (954) 778-3071  
Email: info@virag.bio

Batch# : 032022-D10-KM  
Sampled : 04/01/22  
Ordered : 04/01/22

Sample Size Received : 14 ml  
Total Batch Size : N/A  
Completed : 04/14/22 Expires: 04/14/23  
Sample Method : SOP Client Method

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## Terpenes

**TESTED**

Terpenes	LOD (%)	mg/ml	%	Result (%)	Terpenes	LOD (%)	mg/ml	%	Result (%)
TRANS-CARYOPHYLLENE	0.007	5.108	0.5108		ISOBORNEOL	0.007	ND	ND	
GUAJOL	0.007	ND	ND		FENCHONE	0.007	ND	ND	
LIMONENE	0.007	16.816	1.6816		GAMMA-TERPINENE	0.007	ND	ND	
LINALOOL	0.007	8.874	0.8874		GERANIOL	0.007	ND	ND	
NEROL	0.007	ND	ND						
ALPHA-PHELLANDRENE	0.007	ND	ND						
PULEGONE	0.007	ND	ND						
SABINENE	0.007	ND	ND						
SABINENE HYDRATE	0.007	ND	ND						
TERPINOLENE	0.007	1.276	0.1276						
GERANYL ACETATE	0.007	ND	ND						
TRANS-NEROLIDOL	0.007	ND	ND						
VALENCENE	0.007	ND	ND						
ISOPULEGOL	0.007	ND	ND						
ALPHA-HUMULENE	0.007	3.892	0.3892						
ALPHA-PINENE	0.007	4.882	0.4882						
BETA-MYRCENE	0.007	3.825	0.3825						
BETA-PINENE	0.007	0.268	0.0268						
BORNEOL	0.013	ND	ND						
CAMPHENE	0.007	ND	ND						
CAMPHOR	0.013	ND	ND						
CARYOPHYLLENE OXIDE	0.007	1.982	0.1982						
CEDROL	0.007	ND	ND						
ALPHA-BISABOLOL	0.007	0.338	0.0338						
ALPHA-CEDRENE	0.007	ND	ND						
CIS-NEROLIDOL	0.007	ND	ND						
3-CARENE	0.007	0.201	0.0201						
FENCHYL ALCOHOL	0.007	ND	ND						
HEXAHYDROTHYMOL	0.007	ND	ND						
EUCALYPTOL	0.007	ND	ND						
<b>Total (%)</b>				<b>4.7462</b>					

Analyzed by: 1 Weight: 1g Extraction date: N/A Extracted by: N/A  
 Analysis Method : SOP.T.40.090 Analytical Batch : KN002239TER Reviewed On : 04/14/22 18:18:22  
 Instrument Used : E-SHI-109 Terpenes Batch Date : 04/09/22 14:12:38  
 Running on : N/A  
 Dilution : 1 Reagent : N/A Consumables : N/A Pipette : N/A

Terpenoid profile screening is performed using GC-MS with Liquid Injection (Gas Chromatography - Mass Spectrometer) which can screen 38 terpenes using Method SOP.T.40.090 Terpenoid Analysis Via GC-MS. Analytes ISO Pending



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D8-HI

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2232 Dell Range Blvd.  
Cheyenne, WY, 82009, US  
Telephone: (954) 778-3071  
Email: info@virag.bio

Batch# : 032022-D10-KM  
Sampled : 04/01/22  
Ordered : 04/01/22

Sample Size Received : 14 ml  
Total Batch Size : N/A  
Completed : 04/14/22 Expires: 04/14/23  
Sample Method : SOP Client Method

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## Pesticides

**TESTED**

Pesticide	LOD	Units	Action Level	Pass/Fail	Result	Pesticide	LOD	Units	Action Level	Pass/Fail	Result
ABAMECTIN B1A	0.01	ppm	0.3	PASS	ND	PIPERONYL BUTOXIDE	0.01	ppm	3	PASS	ND
ACEPHATE	0.01	ppm	3	PASS	ND	PRALLETHRIN	0.01	ppm	0.4	PASS	ND
ACEQUINOCYL	0.01	ppm	2	PASS	ND	PROPICONAZOLE	0.01	ppm	1	PASS	ND
ACETAMIPRID	0.01	ppm	3	PASS	ND	PROPOXUR	0.01	ppm	0.1	PASS	ND
ALDICARB	0.01	ppm	0.1	PASS	ND	PYRETHRINS	0.01	ppm	1	PASS	ND
AZOXYSTROBIN	0.01	ppm	3	PASS	ND	PYRIDABEN	0.01	ppm	3	PASS	ND
BIFENAZATE	0.01	ppm	3	PASS	ND	SPINETORAM	0.01	ppm	3	PASS	ND
BIFENTHRIN	0.01	ppm	0.5	PASS	ND	SPIROMESIFEN	0.01	ppm	3	PASS	ND
BOSCALID	0.01	ppm	3	PASS	ND	SPIROTETRAMAT	0.01	ppm	3	PASS	ND
CARBARYL	0.01	ppm	0.5	PASS	ND	SPIROXAMINE	0.01	ppm	0.1	PASS	ND
CARBOFURAN	0.01	ppm	0.1	PASS	ND	TEBUCONAZOLE	0.01	ppm	1	PASS	ND
CHLORANTRANILIPROLE	0.01	ppm	3	PASS	ND	THIACLOPRID	0.01	ppm	0.1	PASS	ND
CHLORMEQUAT CHLORIDE	0.01	ppm	3	PASS	ND	THIAMETHOXAM	0.01	ppm	1	PASS	ND
CHLORPYRIFOS	0.01	ppm	0.1	PASS	ND	TOTAL SPINOSAD	0.01	ppm	3	PASS	ND
CLOFENTEZINE	0.01	ppm	0.5	PASS	ND	TRIFLOXYSTROBIN	0.01	ppm	3	PASS	ND
COUMAPHOS	0.01	ppm	0.1	PASS	ND						
CYPERMETHRIN	0.01	ppm	1	PASS	ND						
DAMINOZIDE	0.01	ppm	0.1	PASS	ND						
DIAZANON	0.01	ppm	0.2	PASS	ND						
DICHLORVOS	0.01	ppm	0.1	FAIL	0.611						
DIMETHOATE	0.01	ppm	0.1	PASS	ND						
DIMETHOMORPH	0.01	ppm	3	PASS	ND						
ETHOPROPHOS	0.01	ppm	0.1	PASS	ND						
ETOFENPROX	0.01	ppm	0.1	PASS	ND						
ETOXAZOLE	0.01	ppm	1.5	PASS	ND						
FENHEXAMID	0.01	ppm	3	PASS	1.8326						
FENOXYCARB	0.01	ppm	0.1	PASS	ND						
FENPYROXIMATE	0.01	ppm	2	PASS	ND						
FIPRONIL	0.01	ppm	0.1	PASS	ND						
FLONICAMID	0.01	ppm	2	PASS	ND						
FLUDIOXONIL	0.01	ppm	3	PASS	ND						
HEXYTHIAZOX	0.01	ppm	2	PASS	ND						
IMAZALIL	0.01	ppm	0.1	PASS	ND						
IMIDACLOPRID	0.01	ppm	3	PASS	ND						
KRESOXIM-METHYL	0.01	ppm	1	PASS	ND						
MALATHION	0.01	ppm	2	PASS	ND						
METALAXYL	0.01	ppm	3	PASS	ND						
METHIOCARB	0.01	ppm	0.1	PASS	ND						
METHOMYL	0.01	ppm	0.1	PASS	ND						
MEVINPHOS	0.01	ppm	0.1	PASS	ND						
MYCLOBUTANIL	0.01	ppm	3	PASS	ND						
NALED	0.01	ppm	0.5	PASS	ND						
OXAMYL	0.01	ppm	0.5	PASS	ND						
PACLOBUTRAZOL	0.01	ppm	0.1	PASS	ND						
PERMETHRINS	0.01	ppm	1	PASS	ND						
PHOSMET	0.01	ppm	0.2	PASS	ND						

**Analyzed by:** 1      **Weight:** 0.5217g      **Extraction date:** 04/06/22 09:04:32      **Extracted by:** 143  
**Analysis Method :** SOP.T.30.060, SOP.T.40.060  
**Analytical Batch :** KN002213PES      **Reviewed On :** 04/08/22 09:53:11  
**Instrument Used :** E-SHI-125 Pesticides      **Batch Date :** 04/05/22 16:06:46  
**Running on :** 04/06/22 09:40:06  
**Dilution :** 10  
**Reagent :** 033122.R24; 110521.03; 031822.R01; 033022.R17; 033022.R18; 031822.R40  
**Consumables :** 210419634; 947.251  
**Pipette :** N/A

Pesticide analysis is performed using LC-MSMS which can quantify down to below single digit ppb concentrations for regulated Pesticides. Currently we analyze for 61 Pesticides. (Methods: SOP.T.30.065 Sample Preparation for Pesticides Analysis via LCMSMS and SOP.T40.065 Procedure for Pesticide Quantification Using LCMSMS). \*Based on FL action limits.



# Certificate of Analysis

**TESTED**

D8-HI

 2232 Dell Range Blvd.  
 Cheyenne, WY, 82009, US  
 Telephone: (954) 778-3071  
 Email: info@virag.bio

 Sample : KN20405014-011  
 Harvest/Lot ID: 1009

 Batch# : 032022-D10-KM  
 Sampled : 04/01/22  
 Ordered : 04/01/22

 Sample Size Received : 14 ml  
 Total Batch Size : N/A  
 Completed : 04/14/22 Expires: 04/14/23  
 Sample Method : SOP Client Method

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## Residual Solvents

PASSED

Solvents	LOD	Units	Action Level	Pass/Fail	Result
PROPANE	500	ppm	2100	PASS	ND
BUTANES (N-BUTANE)	500	ppm	2000	PASS	ND
METHANOL	25	ppm	3000	PASS	ND
ETHYLENE OXIDE	0.5	ppm	5	PASS	ND
PENTANES (N-PENTANE)	75	ppm	5000	PASS	ND
ETHANOL	500	ppm	5000	PASS	ND
ETHYL ETHER	50	ppm	5000	PASS	ND
1,1-DICHLOROETHENE	0.8	ppm	8	PASS	ND
ACETONE	75	ppm	5000	PASS	ND
2-PROPANOL	50	ppm	500	PASS	477.1922
ACETONITRILE	6	ppm	410	PASS	ND
DICHLOROMETHANE	12.5	ppm	600	PASS	ND
N-HEXANE	25	ppm	290	PASS	ND
ETHYL ACETATE	40	ppm	5000	PASS	ND
CHLOROFORM	0.2	ppm	60	PASS	ND
BENZENE	0.1	ppm	2	PASS	ND
1,2-DICHLOROETHANE	0.2	ppm	5	PASS	ND
HEPTANE	500	ppm	5000	PASS	ND
TRICHLOROETHYLENE	2.5	ppm	80	PASS	ND
TOLUENE	15	ppm	890	PASS	ND
TOTAL XYLENES - M, P & O - DIMETHYLBENZENE	15	ppm	2170	PASS	ND

Analyzed by: N/A	Weight: N/A	Extraction date: N/A	Extracted by: N/A
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 Analysis Method : SOP.T.40.032  
 Analytical Batch : KN002237SOL  
 Instrument Used : E-SHI-106 Residual Solvents  
 Running on : N/A

 Reviewed On : 04/11/22 18:11:05  
 Batch Date : 04/08/22 09:45:38

 Dilution : 1  
 Reagent : N/A  
 Consumables : N/A  
 Pipette : N/A

Residual solvents analysis is performed using GC-MS which can detect below single digit ppm concentrations. Currently we analyze for 22 residual solvents. (Method: SOP.T.40.032 Residual Solvents Analysis via GC-MS). \*Based on FL action limits.



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D8-Hi



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Telephone: (954) 778-3071  
Email: info@virag.bio

Sample : KN20405014-011  
Harvest/Lot ID: 1009


Batch# : 032022-D10-KM  
Sampled : 04/01/22  
Ordered : 04/01/22

Sample Size Received : 14 ml  
Total Batch Size : N/A  
Completed : 04/14/22 Expires: 04/14/23  
Sample Method : SOP Client Method

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 <b>Microbial</b>						 <b>Mycotoxins</b>					
<b>PASSED</b>						<b>PASSED</b>					
Analyte	LOD	Units	Result	Pass / Fail	Action Level	Analyte	LOD	Units	Result	Pass / Fail	Action Level
LISTERIA MONOCYTOGENE	2000	RFU	ND	TESTED		AFLATOXIN G2	0.002	ppm	ND	PASS	0.02
ESCHERICHIA COLI SHIGELLA SPP	1726	RFU	ND	PASS	1726	AFLATOXIN G1	0.002	ppm	ND	PASS	0.02
SALMONELLA SPECIFIC GENE	10000	RFU	ND	PASS	10000	AFLATOXIN B2	0.002	ppm	ND	PASS	0.02
ASPERGILLUS FLAVUS	10000	RFU	ND	PASS	10000	AFLATOXIN B1	0.002	ppm	ND	PASS	0.02
ASPERGILLUS FUMIGATUS	10000	RFU	ND	PASS	10000	OCHRATOXIN A+	0.002	ppm	ND	PASS	0.02
ASPERGILLUS NIGER	10000	RFU	ND	PASS	10000	TOTAL MYCOTOXINS	0.002	ppm	ND	TESTED	
ASPERGILLUS TERREUS	10000	RFU	ND	PASS	10000						
<b>Analyzed by:</b> 1 <b>Weight:</b> 1.016g <b>Extraction date:</b> 04/06/22 05:04:14 <b>Extracted by:</b> 1692						<b>Analyzed by:</b> 143 <b>Weight:</b> 0.5217g <b>Extraction date:</b> 04/06/22 09:04:41 <b>Extracted by:</b> 143					
<b>Analysis Method :</b> SOP.T.40.043 <b>Analytical Batch :</b> KN002221MIC <b>Instrument Used :</b> Micro E-HEW-069 <b>Running on :</b> N/A <b>Dilution :</b> 1 <b>Reagent :</b> 030121.01; 121521.01; 122021.01 <b>Consumables :</b> N/A <b>Pipette :</b> N/A						<b>Analysis Method :</b> SOP.T.30.060, SOP.T.40.060 <b>Analytical Batch :</b> KN002214MYC <b>Instrument Used :</b> E-SHI-125 Mycotoxins <b>Running on :</b> 04/06/22 09:40:10 <b>Dilution :</b> N/A <b>Reagent :</b> aflatoxin_g2; aflatoxin_g1; aflatoxin_b2; aflatoxin_b1; ochratoxin_a; total_mycotoxins <b>Consumables :</b> 0.02; 0.02; 0.02; 0.02; 0.02 <b>Pipette :</b> N/A					
<b>Reviewed On :</b> 04/08/22 17:24:03 <b>Batch Date :</b> 04/05/22 18:32:33						<b>Reviewed On :</b> 04/08/22 10:19:00 <b>Batch Date :</b> 04/05/22 16:07:51					

Microbiological testing for Fungal and Bacterial Identification via Polymerase Chain Reaction (PCR) method consisting of sample DNA amplified via tandem Polymerase Chain Reaction (PCR) as a crude lysate which avoids purification. (Method SOP.T.40.043) If a pathogenic Escherichia Coli, Salmonella, Aspergillus fumigatus, Aspergillus flavus, Aspergillus niger, or Aspergillus terreus is detected in 1g of a sample, the sample fails the microbiological-impurity testing.

 <b>Heavy Metals</b>		<b>PASSED</b>					
Metal	LOD	Units	Result	Pass / Fail	Action Level		
ARSENIC-AS	0.02	ppm	ND	PASS	1.5		
CADMIUM-CD	0.02	ppm	ND	PASS	0.5		
MERCURY-HG	0.02	ppm	ND	PASS	3		
LEAD-PB	0.02	ppm	ND	PASS	0.5		
<b>Analyzed by:</b> 1 <b>Weight:</b> 0.2568g <b>Extraction date:</b> 04/09/22 04:04:16 <b>Extracted by:</b> 12							
<b>Analysis Method :</b> SOP.T.40.050, SOP.T.30.052 <b>Analytical Batch :</b> KN002215HEA <b>Instrument Used :</b> Metals ICP/MS <b>Running on :</b> N/A		<b>Reviewed On :</b> 04/08/22 18:20:29 <b>Batch Date :</b> 04/05/22 16:11:16					
<b>Dilution :</b> 1 <b>Reagent :</b> 121421.04; 011022.R08; 020422.R07; 011022.R07 <b>Consumables :</b> 107702-05-081520; 12235-110CD-110C <b>Pipette :</b> N/A							

Heavy Metals screening is performed using ICP-MS (Inductively Coupled Plasma - Mass Spectrometer) which can screen down to single digit ppb concentrations for regulated heavy metals using Method SOP.T.30.082 Sample Preparation for Heavy Metals Analysis via ICP-MS and SOP.T.40.082TN Heavy Metals Analysis via ICP-MS.



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Harvest/Lot ID: 1009

Batch# : 032022-D10-KM  
Sampled : 04/01/22  
Ordered : 04/01/22

Sample Size Received : 14 ml  
Total Batch Size : N/A  
Completed : 04/14/22 Expires: 04/14/23  
Sample Method : SOP Client Method

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	<b>Filth/Foreign Material</b>	<b>PASSED</b>
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Analyte	LOD	Units	Result	P/F	Action Level
Filth and Foreign Material	1	detect/g	ND	PASS	3

Analyzed by:	Weight:	Extraction date:	Extracted by:


Analysis Method : SOP.T.30.074, SOP.T.40.074  
Analytical Batch : KN002220FIL  
Instrument Used : E-AMS-138 Microscope  
Running on : N/A  
Reviewed On : 04/07/22 08:26:37  
Batch Date : 04/05/22 18:31:54

This includes but is not limited to hair, insects, feces, packaging contaminants, and manufacturing waste and by-products. A SW-2T13 Stereo Microscope is use for inspection.

**Sue Ferguson**

Lab Director

State License # n/a  
ISO Accreditation # 17025:2017



Signature

04/14/22

Signed On