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CERTIFICATE OF ANALYSIS

Client information

1359851 BC LTD. DBA Magi Cannabis
240 Hillcrest Drive
Saltspring Island , Canada, V8K 1Y4

COA information

COA number	**230515_57858_PAR15925**
COA Date	**15-May-2023**
Analysis Request ID	**PAR15925**

Sample information

Sample Name	**HIPPIE HEADBANGER**	Sample Receiving Date	**10-May-2023**
Sample ID	**MAGI-03/23-MIX**	Receiving Temperature	**21°C**
Laboratory ID	**PAT49070**	Analysis Date	**12-May-2023**
Method Ref.	**PAT-AM-019**		

Cannabinoids Profile

Compounds	Results (%w/w)	Results (mg/g)	LOQ(%)
CBC	<0.010	<0.100	0.010
CBD	<0.010	<0.100	0.010
CBDA	0.078	0.780	0.010
CBDV	<0.010	<0.100	0.010
CBG	0.111	1.110	0.010
CBGA	0.650	6.500	0.010
CBN	<0.010	<0.100	0.010
D8-THC	<0.010	<0.100	0.010
D9-THC	0.478	4.780	0.010
THCA-A	34.168	341.680	0.010
THCV	<0.010	<0.100	0.010
Total THC	**30.443**	**304.433**	
Total CBD	**0.068**	**0.684**	

30.443%
Total THC

0.068%
Total CBD

Total THC = THC + (THCA*0.877), Total CBD = CBD + (CBDA*0.877)
Total THC/CBD is calculated using the formulas to take into account the loss of carboxyl group during decarboxylation step.

Authorized by: Laboratory Manager

Signature:

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Details of testing

1. *LOQ- Limit of quantification*
2. *% w/w: percent (weight of analyte/ weight of product)*
3. *Results only apply to the items tested and to the sample(s) as received.*
4. *This report may not be distributed or reproduced except in full*

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********** This is end of the Certificate of Analysis **********

HIGH NORTH ID:
00336460
Date: 2023-05-18
Certificate: 1684450714

High North Inc.
241 Hanlan Rd, Unit 7
Woodbridge, ON, L4L 3R7
1-416-864-6119
LIC-P4PNJMAC20-2022

Client:	Joshua Cullen Beckett 240 Hillcrest Drive, Saltspring Island, BC, V8K 1Y4	Product:	HIPPIE HEADBANGER
		Lot:	MAGI-03/23-MIX
		Matrix:	Flower
Name:	Joshua Cullen Beckett 250 537 6880 Jcbeckett@me.com	Sub-matrix:	Dried Flower
		Sampled:	2023-05-11
		Received:	2023-05-16

Certificate of Analysis

Terpene Analysis	LOD (%)	LOQ (%)	wt%
Beta-Myrcene	0.0004	0.005	0.929
(R)-(+)-Limonene	0.0006	0.005	0.757
Trans-Caryophyllene	0.0011	0.005	0.51
Farnesene*	0.0029	0.010	0.498
Linalool	0.0006	0.005	0.237
Alpha-Humulene	0.0002	0.005	0.148
Alpha-Terpineol	0.0007	0.005	0.119
Alpha-Bisabolol	0.0011	0.005	0.116
trans-Nerolidol	0.0005	0.005	0.093
(R)-Endo-(+)-Fenchyl Alcohol	0.0005	0.005	0.082
Beta-Pinene	0.0004	0.005	0.082
Alpha-Pinene	0.0002	0.005	0.055
Camphene	0.0009	0.005	0.016
Terpinolene	0.0005	0.005	0.011
Caryophyllene oxide	0.0009	0.005	0.01
Borneol	0.0005	0.005	0.01
Squalene	0.0015	0.005	0.007
Sabinene Hydrate	0.0006	0.005	BLQ
Isobornyl Acetate	0.0005	0.005	BLQ
Fenchone	0.0003	0.005	BLQ
Gamma-Terpinene	0.0002	0.005	BLQ
Alpha-Terpinene	0.0004	0.005	BLQ
Phytol*	0.0030	0.010	ND
Nootkatone	0.0009	0.005	ND
Farnesol*	0.0032	0.010	ND
Phytane	0.0006	0.005	ND
(+)-Cedrol	0.0004	0.005	ND
Guaiol	0.0013	0.005	ND
cis-Nerolidol	0.0012	0.005	ND

Abbreviations: wt% = percentage of weight, CFU = colony forming units, ppm = Parts per million, ppb = Parts per billion, ND = None Detected, BLQ = Below Limit of Quantification, LOQ = Limit of Quantification, LOD = Limit of Detection, RL = Reporting Limit, * = Mixture of Isomers

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Terpene Analysis	LOD (%)	LOQ (%)	wt%
Valencene	0.0006	0.005	ND
Eugenol	0.0010	0.005	ND
Alpha-Cedrene	0.0004	0.005	ND
Geranyl acetate	0.0007	0.005	ND
Carvacrol	0.0005	0.005	ND
Thymol	0.0006	0.005	ND
d-Valerolactam (2-piperidone)	0.0015	0.005	ND
(-)-Piperitone	0.0012	0.005	ND
Carvone	0.0006	0.005	ND
Pulegone	0.0006	0.005	ND
Verbenone	0.0006	0.005	ND
Citral*	0.0015	0.005	ND
Geraniol	0.0005	0.005	ND
Safranal	0.0004	0.005	ND
Nerol	0.0007	0.005	ND
Citronellol	0.0008	0.005	ND
Octyl Acetate	0.0005	0.005	ND
Terpinen-4-ol	0.0017	0.005	ND
Camphor	0.0005	0.005	ND
Isoborneol	0.0005	0.005	ND
Menthol (Hexahydrothymol)	0.0013	0.005	ND
Menthone*	0.0015	0.005	ND
Isopulegol	0.0010	0.005	ND
Alpha-Thujone	0.0010	0.005	ND
Eucalyptol	0.0011	0.005	ND
Cymene*	0.0004	0.005	ND
Ocimene	0.0017	0.005	ND
Alpha-Phellandrene	0.0010	0.005	ND
(1S)-3-Carene	0.0009	0.005	ND
Sabinene	0.0003	0.005	ND
Total of all quantified terpenes:			3.680

Abbreviations: wt% = percentage of weight, CFU = colony forming units, ppm = Parts per million, ppb = Parts per billion, ND = None Detected, BLQ = Below Limit of Quantification, LOQ = Limit of Quantification, LOD = Limit of Detection, RL = Reporting Limit, * = Mixture of Isomers

Authorized by:

Ryan Lee
Quality Assurance

Details of Testing

Cannabinoid Analysis

LAB-MTD-020: Determination of 11 Cannabinoids in Cannabis Flower (LOQ 0.06%), Fresh Flower (LOQ 0.015%), Oil (LOQ 0.03%) and Concentrates (LOQ 0.6%) by HPLC and UHPLC
LAB-MTD-021: Determination of Cannabinoids of Individually Isolated Sample by HPLC/UHPLC
LAB-MTD-023: Determination of 11 Cannabinoids in Cannabis Tablets and Granules (LOQ 0.025%) by HPLC/UHPLC
LAB-MTD-030: Determination of 11 Cannabinoids in Cannabis Topicals (LOQ 0.005%) by HPLC/UHPLC
LAB-MTD-039: Determination of 11 Cannabinoids in Cannabis Edibles; Liquid Edibles (LOQ 0.0005%) and Solid Edibles (LOQ 0.005%) by UHPLC
LAB-MTD-051: Assay of Cannabinoids in Cannabis Flower as per DAB by HPLC
LAB-MTD-052: Identification of CBD and THCA as per DAB by Thin-Layer Chromatography

Terpene Analysis

LAB-MTD-044: Determination of Terpene Content in Cannabis Dried Flower, Fresh Flower and Extracts by GC-MS

Pesticide Analysis

LAB-MTD-010: Determination of Pesticide and Mycotoxins in Cannabis by LC-MS/MS and GC-MS/MS
LAB-MTD-040: Determination of EP Pesticide Residues in Cannabis Oil and Related Products by GC-MS/MS
LAB-MTD-041: Determination of EP Pesticide Residues in Cannabis Flower and Related Products by GC-MS/MS
LAB-MTD-046: Determination of Health Canada Pesticide Residues and Toxins in Cannabis Oil and Related Products by LC-MS/MS
LAB-MTD-048: Determination of Health Canada Pesticide Residues and Toxins in Fresh Cannabis Flower by LC-MS/MS and GC-MS/MS

Mycotoxin Analysis

LAB-MTD-010: Determination of Pesticide and Mycotoxins in Cannabis by LC-MS/MS and GC-MS/MS
LAB-MTD-029: Determination of Toxins in Tablet Samples by LC-MS/MS
LAB-MTD-037: Determination of Mycotoxins in Topical/Cream Samples by LC-MS/MS

Heavy Metal Analysis

LAB-MTD-050: Multi-Element Analysis of Cannabis Dried Flower, Fresh Flower, Extracts, Rolling Papers, and Related Products by ICP-MS

Flavonoid Analysis

LAB-MTD-045: Determination of Flavonoids in Cannabis Dried Flower, Fresh Flower, and Extracts by LC-MS/MS

Abbreviations: wt% = percentage of weight, CFU = colony forming units, ppm = Parts per million, ppb = Parts per billion, ND = None Detected, BLQ = Below Limit of Quantification, LOQ = Limit of Quantification, LOD = Limit of Detection, RL = Reporting Limit, * = Mixture of Isomers

Authorized by:

Ryan Lee
Quality Assurance

Details of Testing

Microbial Analysis
MIC-MTD-001: Microbial Analysis of Cannabis Flower and Oil by qPCR
MIC-MTD-006: Determination of Viruses in Cannabis via qPCR and ELISA
MIC-MTD-007: Microbial Analysis of Cannabis by Culture Techniques
MIC-MTD-009: Cannabis Gender Determination by qPCR

Moisture Analysis
LAB-MTD-017: Determination of Moisture Content in Cannabis Flower
LAB-MTD-031: Water Activity Meter Setup and Operation
LAB-MTD-053: Determination of Moisture Content by Loss on Drying Technique using Vacuum Oven

Sample Appearance and Foreign Matter
LAB-MTD-022: Sample Appearance and Detection of Foreign Matter Content in Cannabis Samples

Total Ash Analysis
LAB-MTD-043: Total Ash by Muffle Furnace in Cannabis Products

Residual Solvents Analysis
LAB-MTD-036: Determination of Residual Solvents in Cannabis Oil by GC-MS
LAB-MTD-028: Determination of Residual Solvents in Tablet Samples by GC-MS
LAB-MTD-034: Determination of Propane and Butane in Cannabis Oil by GC-MS
LAB-MTD-038: Determination of Toluene in Cannabis Isolate by GC-MS

Abbreviations: wt% = percentage of weight, CFU = colony forming units, ppm = Parts per million, ppb = Parts per billion, ND = None Detected, BLQ = Below Limit of Quantification, LOQ = Limit of Quantification, LOD = Limit of Detection, RL = Reporting Limit, * = Mixture of Isomers

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CERTIFICATE OF ANALYSIS

Client information

1359851 BC LTD. DBA Magi Cannabis
240 Hillcrest Drive
Saltspring Island , Canada, V8K 1Y4

COA information

COA number	**230516_58106_PAR15925**
COA Date	**16-May-2023**
Analysis Request ID	**PAR15925**

Sample information

Sample Name	**HIPPIE HEADBANGER, LA RUNTS, SALTY PINK, PINE TAR**
Sample ID	**MAGI-03/23-MIX**
Laboratory ID	**PAT49069**
Sample Receiving Date	**10-May-2023**
Receiving Temperature	**21°C**

Results information

Analysis Date	Test	Method Ref.	Results	Units	Specification (EP 5.1.8)	Compliance
13-May-2023	**Escherichia coli**	EP 2.6.13	**Negative**	/g	Negative	**PASS**
13-May-2023	**Bile-Tolerant Gram Negative Bacteria**	EP 2.6.13	**<100**	MPN/g	<= 10000	**PASS**
14-May-2023	**Yeast and Mold Count**	EP 2.6.12	**20**	CFU/g	<= 50000	**PASS**
12-May-2023	**Aerobic Microbial Count**	EP 2.6.12	**<10**	CFU/g	<= 500000	**PASS**
12-May-2023	**Staphylococcus aureus**	EP 2.6.13	**Negative**	/g	Negative	**PASS**
13-May-2023	**Salmonella spp.**	EP 2.6.13	**Negative**	/25g	Negative	**PASS**
12-May-2023	**Pseudomonas aeruginosa**	EP 2.6.13	**Negative**	/g	Negative	**PASS**

Authorized by: Laboratory Manager

Signature: 

Details of testing

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CERTIFICATE OF ANALYSIS

Client information

1359851 BC LTD. DBA Magi Cannabis
240 Hillcrest Drive
Saltspring Island , Canada, V8K 1Y4

COA information

COA number	**230516_58079_PAR15925**
COA Date	**16-May-2023**
Analysis Request ID	**PAR15925**

Sample information

Sample Name	**HIPPIE HEADBANGER, LA RUNTS, SALTY PINK, PINE TAR**
Sample ID	**MAGI-03/23-MIX**
Laboratory ID	**PAT49069**
Method Ref.	**PAT-AM-026(EP 2.8.2)**
Sample Receiving Date	**10-May-2023**
Receiving Temperature	**21°C**
Analysis Date	**11-May-2023**

Results Information

Foreign Material	Results	Unit	LOQ
Foreign elements	0	/g	N/A
Foreign organs	0	/g	N/A
Other Foreign elements	0	/g	N/A
Total Foreign matter	0	/g	N/A

Authorized by: Laboratory Manager

Signature:

Details of testing

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Sample information

Sample Name	**HIPPIE HEADBANGER, LA RUNTS, SALTY PINK, PINE TAR**	Sample Receiving Date	**10-May-2023**
Sample ID	**MAGI-03/23-MIX**	Receiving Temperature	**21°C**
Laboratory ID	**PAT49069**	Analysis Date	**12-May-2023**
Method Ref.	**PAT-AM-020 (USP 233 Modified)**		

Results Information

Heavy Metals	Results	Unit	Specification (USP 232)	Compliance	LOQ
Arsenic	**<0.025**	ppm	<= 0.2	PASS	0.025
Cadmium	**<0.020**	ppm	<= 0.3	PASS	0.02
Lead	**<0.010**	ppm	<= 0.5	PASS	0.01
Mercury	**<0.005**	ppm	<= 0.1	PASS	0.005

Authorized by: Laboratory Manager

Signature:

Details of testing

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Sample information

Sample Name	**HIPPIE HEADBANGER, LA RUNTS, SALTY PINK, PINE TAR**	Sample Receiving Date	**10-May-2023**
Sample ID	**MAGI-03/23-MIX**	Receiving Temperature	**21°C**
Laboratory ID	**PAT49069**	Analysis Date	**15-May-2023**
Method Ref.	**PAT-AM-024**		

Results Information

Aflatoxins	Results	Unit	LOQ
Aflatoxin B1	**<0.002**	ppm	0.002
Aflatoxin B2	**<0.002**	ppm	0.002
Aflatoxin G1	**<0.002**	ppm	0.002
Aflatoxin G2	**<0.002**	ppm	0.002
Total Aflatoxins (B1,B2,G1,G2)	**<0.002**	ppm	0.002

Authorized by: Laboratory Manager

Signature:

Details of testing

1. *LOQ- Limit of quantification*
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Sample information

Sample Name	**HIPPIE HEADBANGER, LA RUNTS, SALTY PINK, PINE TAR**	Sample Receiving Date	**10-May-2023**
Sample ID	**MAGI-03/23-MIX**	Receiving Temperature	**21°C**
Laboratory ID	**PAT49069**	Analysis Date	**15-May-2023**
Method Ref.	**PAT-AM-024**		

Pesticides Dried Cannabis Results Information

Compound Detected	Results (ppm)	RDL	Specification (HC MRL Limits)	Compliance
No Compounds Detected				

Compounds Not Detected	Results (ppm)	RDL	Specification (HC MRL Limits)
Abamectin	ND	0.02	< 0.1
Acephate	ND	0.02	< 0.02
Acequinocyl	ND	0.02	< 0.03
Acetamiprid	ND	0.02	< 0.1
Aldicarb	ND	0.02	< 1
Allethrin	ND	0.02	< 0.2
Azadirachtin	ND	0.02	< 1
Azoxystrobin	ND	0.01	< 0.02
Benzovindiflupyr	ND	0.01	< 0.02
Bifenazate	ND	0.02	< 0.02
Bifenthrin	ND	0.02	< 1
Boscalid	ND	0.01	< 0.02
Buprofezin	ND	0.01	< 0.02
Carbaryl	ND	0.02	< 0.05
Carbofuran	ND	0.01	< 0.02
Chlorantraniliprole	ND	0.01	< 0.02
Chlorphenapyr	ND	0.05	< 0.05
Chlorpyrifos	ND	0.01	< 0.04
Clofentezine	ND	0.01	< 0.02
Clothianidin	ND	0.02	< 0.05
Coumaphos	ND	0.01	< 0.02
Cyantraniliprole	ND	0.01	< 0.02
Cyfluthrin	ND	0.1	< 0.2
Cypermethrin	ND	0.02	< 0.3
Cyprodinil	ND	0.02	< 0.25
Daminozide	ND	0.05	< 0.1
Deltamethrin	ND	0.02	< 0.5
Diazinon	ND	0.01	< 0.02
Dichlorvos	ND	0.02	< 0.1
Dimethoate	ND	0.01	< 0.02
Dimethomorph	ND	0.02	< 0.05
Dinotefuran	ND	0.02	< 0.1
Dodemorph	ND	0.02	< 0.05
Endosulfan sulfate	ND	0.02	< 0.05
Endosulfan-alpha	ND	0.1	< 0.2
Endosulfan-beta	ND	0.01	< 0.05

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Compounds Not Detected	Results (ppm)	RDL	Specification (HC MRL Limits)
Ethoprophos	ND	0.01	< 0.02
Etofenprox	ND	0.01	< 0.05
Etoxazole	ND	0.01	< 0.02
Etridiazole	ND	0.01	< 0.03
Fenoxycarb	ND	0.01	< 0.02
Fenpyroximate	ND	0.02	< 0.02
Fensulfothion	ND	0.01	< 0.02
Fenthion	ND	0.01	< 0.02
Fenvalerate	ND	0.05	< 0.1
Fipronil	ND	0.01	< 0.06
Flonicamid	ND	0.02	< 0.05
Fludioxonil	ND	0.01	< 0.02
Fluopyram	ND	0.01	< 0.02
Hexythiazox	ND	0.01	< 0.01
Imazalil	ND	0.01	< 0.05
Imidacloprid	ND	0.01	< 0.02
Iprodione	ND	0.5	< 1
Kinoprene	ND	0.05	< 0.5
Kresoxim-methyl	ND	0.01	< 0.02
Malathion	ND	0.01	< 0.02
Metalaxyl	ND	0.01	< 0.02
Methiocarb	ND	0.01	< 0.02
Methomyl	ND	0.02	< 0.05
Methoprene	ND	0.5	< 2
Mevinphos	ND	0.02	< 0.05
MGK-264	ND	0.02	< 0.05
Myclobutanil	ND	0.01	< 0.02
Naled	ND	0.02	< 0.1
Novaluron	ND	0.02	< 0.05
Oxamyl	ND	0.02	< 3
Paclobutrazol	ND	0.01	< 0.02
Parathion-methyl	ND	0.02	< 0.05
Permethrin	ND	0.1	< 0.5
Phenothrin	ND	0.02	< 0.05
Phosmet	ND	0.01	< 0.02
Piperonyl butoxide	ND	0.02	< 0.2
Pirimicarb	ND	0.01	< 0.02
Prallethrin	ND	0.02	< 0.05
Propiconazole	ND	0.01	< 0.1
Propoxur	ND	0.01	< 0.02
Pyraclostrobin	ND	0.01	< 0.02
Pyrethrins	ND	0.025	< 0.05
Pyridaben	ND	0.02	< 0.05
Quintozene	ND	0.01	< 0.02
Resmethrin	ND	0.02	< 0.1
Spinetoram	ND	0.01	< 0.02
Spinosad	ND	0.01	< 0.1
Spirodiclofen	ND	0.02	< 0.25
Spiromesifen	ND	0.02	< 3
Spirotetramat	ND	0.02	< 0.02
Spiroxamine	ND	0.01	< 0.1

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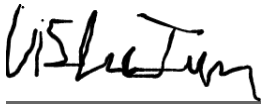
Compounds Not Detected	Results (ppm)	RDL	Specification (HC MRL Limits)
Tebuconazole	ND	0.01	< 0.05
Tebufenozide	ND	0.01	< 0.02
Teflubenzuron	ND	0.02	< 0.05
Tetrachlorvinphos	ND	0.01	< 0.02
Tetramethrin	ND	0.02	< 0.1
Thiacloprid	ND	0.01	< 0.02
Thiamethoxam	ND	0.01	< 0.02
Thiophanate-methyl	ND	0.02	< 0.05
Trifloxystrobin	ND	0.01	< 0.02

Authorized by: Laboratory Manager

Signature: 

Details of testing

1. *ppm (w/w): parts per million by weight, MRL: Maximum residue limits, RDL: Reporting detection limits*
2. *The compounds are ND (not detected) at or above the RDL*
3. *Health Canada and/or United States MRL are taken from Health Canada & Global MRL Database (where applicable) on the date of COA preparation*
4. *Results only apply to the items tested and to the sample(s) as received.*
5. *This report may not be distributed or reproduced except in full*

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