Hugs Mango & Raspberry Tinctures Certificate of Analysis 1000mg

Batch ID:	Hug-MANGO1000-001	Test ID:	5423200.002
Reported:	26-Apr-2019	Method:	TM14
Туре:	Concentrate		
Test	Potency		

CANNABINOID PROFILE

			Compound	LOQ(%)	Result (%)	Result (mg/g)
			Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.15	0.0	0.0
			Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.07	0.10	1.0
			Cannabidiolic Acid (CBDA)	0.07	0.0	0.0
	0.000/		Cannabidiol (CBD)	0.04	3.30	33.1
	3.68%		Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.08	0.0	0.0
	Total		Cannabinolic Acid (CBNA)	0.20	0.0	0.0
C	Cannabinoids*		Cannabinol (CBN)	0.09	0.0	0.0
			Cannabigerolic Acid (CBGA)	0.13	0.0	0.0
			Cannabigerol (CBG)	0.07	0.14	1.4
			Tetrahydrocannabivarinic Acid (THCVA)	0.13	0.0	0.0
			Tetrahydrocannabivarin (THCV)	0.07	0.0	0.0
			Cannabidivarinic Acid (CBDVA)	0.06	0.0	0.0
0.0.0			Cannabidivarin (CBDV)	0.03	0.0	0.0
CBD		3.30%	Cannabichromenic Acid (CBCA)	0.11	0.0	0.0
			Cannabichromene (CBC)	0.13	0.14	1.4
CBDa 0	.00%					
delta 9 THC	0.10%		Total Cannabinoids		3.68	36.80
			Total Potential THC**		0.10	1.00
THCa 0	.00%		Total Potential CBD**		3.30	33.00

% = % (w/w) = Percent (Weight of Analyte / Weight of Product) * Total Cannabinoids result reflects the absolute sum of all cannabinoids detected ** Total Potential THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step. Total THC = THC + (THCa *(0.877)) and Total CBD = CBD + (CBDa *(0.877))

Pesticides

Sample ID	Analyzed	Sample Description	Analysis	Result	Units	Method Code
1904904-001	4/24/2019	Hug_Mango1000_001	Salmonella spp.	Negative	/10g	Salm.1a
	4/24/2019		Listeria spp.	Negative	/10g	List.2
	4/24/2019		Aerobic Plate Count	< 10	CFU/g	APC.1a
	4/24/2019		Totali Coliform Bacteria	< 10	CFU/g	TC.1a
	4/24/2019		Escherichia coli	< 10	CFU/g	EC.1a
	4/24/2019		Yeast and Mold	< 10	CFU/g	Y&M.1a

Solvents

Date Lab Test: 06-Jun-2019

Lot Number: IL19051-029

Metals

*ND: Detected or below reportable threshold All data in the folowing table is in parts per million (ppm)

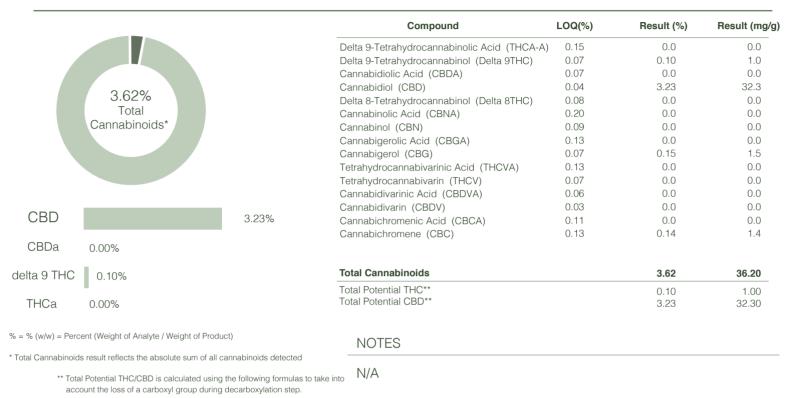
Sample	METRC #	Arsenic	Lead	Cadmium	Mercury
295973	00120	ND	ND	ND	ND

Notes: The State of Colorado mandates the following levels for heavy metals: Lead (1 ppm), Arsenic (0.4 ppm), Cadmium (0.4 ppm) and Mercury (0.2 ppm). This testing is for R&D purposed only.

Test	Methodology	Specification	Test Results	Pass/Fail
Residual Pentane	Headspace GC-FID	≤ 500 ppm	< LOQ	Pass
Residual Acetone	Headspace GC-FID	≤ 500 ppm	< LOQ	Pass
Residual Isopropyl Alcohol	Headspace GC-FID	≤ 500 ppm	< LOQ	Pass
Residual Hexane	Headspace GC-FID	≤ 25 ppm	ND	Pass

Batch ID:	Hug -RASP-1000-001	Test ID:	5423200.004
Reported:	26-Apr-2019	Method:	TM14
Туре:	Concentrate		
Test	Potency		

CANNABINOID PROFILE



Total THC = THC + (THCa *(0.877)) and Total CBD = CBD + (CBDa *(0.877))

Pesticides

Sample ID	Analyzed	Sample Description	Analysis	Result	Units	Method Code
1904904-002	4/24/2019	Hug_Rasp1000_001	Salmonella spp.	Negative	/10g	Salm.1a
	4/24/2019		Listeria spp.	Negative	/10g	List.2
	4/24/2019		Aerobic Plate Count	< 10	CFU/g	APC.1a
	4/24/2019		Totali Coliform Bacteria	< 10	CFU/g	TC.1a
	4/24/2019		Escherichia coli	< 10	CFU/g	EC.1a
	4/24/2019		Yeast and Mold	< 10	CFU/g	Y&M.1a

Metals

*ND: Detected or below reportable threshold All data in the folowing table is in parts per million (ppm)

Sample	METRC #	Arsenic	Lead	Cadmium	Mercury
295973	00120	ND	ND	ND	ND

Notes: The State of Colorado mandates the following levels for heavy metals: Lead (1 ppm), Arsenic (0.4 ppm), Cadmium (0.4 ppm) and Mercury (0.2 ppm). This testing is for R&D purposed only.

Solvents

 Date Lab Test:
 06-Jun-2019

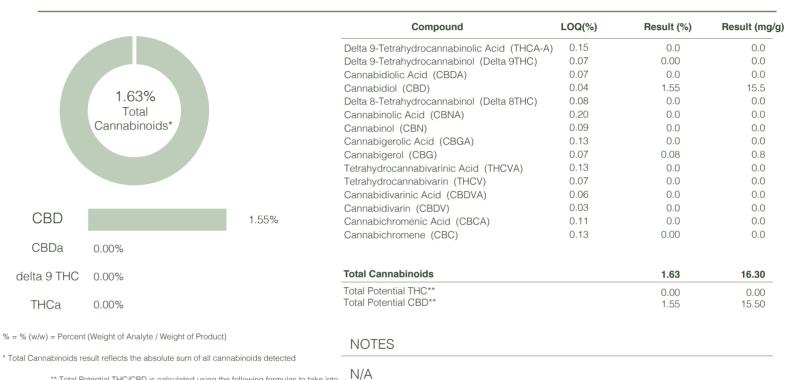
 Lot Number:
 IL19051-029

Test	Methodology	Specification	Test Results	Pass/Fail
Residual Pentane	Headspace GC-FID	≤ 500 ppm	< LOQ	Pass
Residual Acetone	Headspace GC-FID	≤ 500 ppm	< LOQ	Pass
Residual Isopropyl Alcohol	Headspace GC-FID	≤ 500 ppm	< LOQ	Pass
Residual Hexane	Headspace GC-FID	≤ 25 ppm	ND	Pass

Hugs Mango & Raspberry Tinctures Certificate of Analysis 500mg

Batch ID:	Hug-MANGO500-001	Test ID:	5423200.003
Reported:	26-Apr-2019	Method:	TM14
Туре:	Concentrate		
Test	Potency		

CANNABINOID PROFILE



** Total Potential THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step.

Total THC = THC + (THCa *(0.877)) and Total CBD = CBD + (CBDa *(0.877))

Pesticides

Sample ID	Analyzed	Sample Description	Analysis	Result	Units	Method Code
1904904-003	4/24/2019	Hug_Mango500_001	Salmonella spp.	Negative	/10g	Salm.1a
	4/24/2019		Listeria spp.	Negative	/10g	List.2
	4/24/2019		Aerobic Plate Count	< 10	CFU/g	APC.1a
	4/24/2019		Totali Coliform Bacteria	< 10	CFU/g	TC.1a
	4/24/2019		Escherichia coli	< 10	CFU/g	EC.1a
	4/24/2019		Yeast and Mold	< 10	CFU/g	Y&M.1a

Metals

*ND: Detected or below reportable threshold All data in the folowing table is in parts per million (ppm)

Sample	METRC #	Arsenic	Lead	Cadmium	Mercury
295973	00120	ND	ND	ND	ND

Notes: The State of Colorado mandates the following levels for heavy metals: Lead (1 ppm), Arsenic (0.4 ppm), Cadmium (0.4 ppm) and Mercury (0.2 ppm). This testing is for R&D purposed only.

Solvents

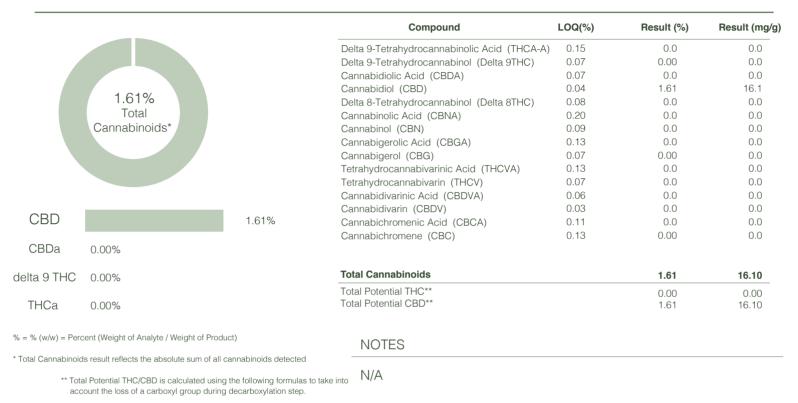
Date Lab Test: Lot Number:

06-Jun-2019 IL19051-029

Test **Test Results** Pass/Fail Methodology Specification Residual Pentane Headspace GC-FID < LOQ ≤ 500 ppm Pass Residual Acetone Headspace GC-FID ≤ 500 ppm < LOQ Pass Residual Isopropyl Alcohol Headspace GC-FID ≤ 500 ppm < LOQ Pass Headspace GC-FID **Residual Hexane** ≤ 25 ppm ND Pass

Batch ID:	Hug -RASP-500-001	Test ID:	5423200.005
Reported:	26-Apr-2019	Method:	TM14
Туре:	Concentrate		
Test	Potency		

CANNABINOID PROFILE



Total THC = THC + (THCa *(0.877)) and Total CBD = CBD + (CBDa *(0.877))

Pesticides

Sample ID	Analyzed	Sample Description	Analysis	Result	Units	Method Code
1904904-004	4/24/2019	Hug_Rasp500_001	Salmonella spp.	Negative	/10g	Salm.1a
	4/24/2019		Listeria spp.	Negative	/10g	List.2
	4/24/2019		Aerobic Plate Count	< 10	CFU/g	APC.1a
	4/24/2019		Totali Coliform Bacteria	< 10	CFU/g	TC.1a
	4/24/2019		Escherichia coli	< 10	CFU/g	EC.1a
	4/24/2019		Yeast and Mold	< 10	CFU/g	Y&M.1a

Metals

*ND: Detected or below reportable threshold All data in the folowing table is in parts per million (ppm)

Sample	METRC #	Arsenic	Lead	Cadmium	Mercury
295973	00120	ND	ND	ND	ND

Notes: The State of Colorado mandates the following levels for heavy metals: Lead (1 ppm), Arsenic (0.4 ppm), Cadmium (0.4 ppm) and Mercury (0.2 ppm). This testing is for R&D purposed only.

Solvents

 Date Lab Test:
 06-Jun-2019

 Lot Number:
 IL19051-029

Test	Methodology	Specification	Test Results	Pass/Fail
Residual Pentane	Headspace GC-FID	≤ 500 ppm	< LOQ	Pass
Residual Acetone	Headspace GC-FID	≤ 500 ppm	< LOQ	Pass
Residual Isopropyl Alcohol	Headspace GC-FID	≤ 500 ppm	< LOQ	Pass
Residual Hexane	Headspace GC-FID	≤ 25 ppm	ND	Pass