

Certificate of Analysis

No. 196 - 001

Medi Extract Eastern Cape (Pty) Ltd

Attn: Jan Boshoff
3 Hoof Street
Joubertina
Eastern Cape
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2023-07-28

Sample No: 3299340
Batch Number: Blue Cheese 101
Product Description: Blue Cheese 101
Sample Type: Flower

Date Manufactured: 03-Jul-23
Date Received: 2023-07-11
Seal: Vacuum sealed
Condition: Good

Expiry date (if applicable): Nov-24
Analysis Start Date: 2023-07-11
Packaging: 90GSM plastic bag

CANNABINOIDS | HPLC-UV | DAB MONOGRAPH | DATE ANALYSED: 2023-07-12

Parameter	Method	Unit	Result
Cannabidiarin (CBDV)	VIN-05-M46/ Ph. Eur.2.2.29	wt%	0.1
Tetrahydrocannabivarin (THCV)	VIN-05-M46/ Ph. Eur.2.2.29	wt%	0.0
Cannabidiol (CBD)	VIN-05-M46/ Ph. Eur.2.2.29	wt%	0.0
Cannabidiolic Acid (CBDA)	VIN-05-M46/ Ph. Eur.2.2.29	wt%	0.0
Cannabigerol (CBG)	VIN-05-M46/ Ph. Eur.2.2.29	wt%	0.3
Cannabinol (CBN)	VIN-05-M46/ Ph. Eur.2.2.29	wt%	0.0
Cannabigerolic Acid (CBGA)	VIN-05-M46/ Ph. Eur.2.2.29	wt%	2.8
Delta-9-Tetrahydrocannabinol (d9-THC)	VIN-05-M46/ Ph. Eur.2.2.29	wt%	0.2
Delta-8-Tetrahydrocannabinol (d8-THC)	VIN-05-M46/ Ph. Eur.2.2.29	wt%	0.0
Cannabichromene (CBC)	VIN-05-M46/ Ph. Eur.2.2.29	wt%	0.0
Tetrahydrocannabinolic Acid (THCA)	VIN-05-M46/ Ph. Eur.2.2.29	wt%	20.0
% THC Total *	VIN-05-M46/ Ph. Eur.2.2.29	wt%	17.7
% CBD Total*	VIN-05-M46/ Ph. Eur.2.2.29	wt%	0.0
% CBG Total*	VIN-05-M46/ Ph. Eur.2.2.29	wt%	2.8

Cannabinoids on flowers are reported on a dry basis

AFLATOXINS | LC-MS/MS | DATE ANALYSED: 2023-07-14

Parameter	Method	Unit	Specification	LOQ	Result
Aflatoxin B1 *	Ph.Eur.2.8.18	ppb	NMT 2ppb	0.025	not detected
Aflatoxin B2 *	-	ppb	N/A	-	not detected
Aflatoxin G1 *	-	ppb	N/A	-	not detected

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Aflatoxin G2 *	-	ppb	N/A	-	not detected
Total Aflatoxins *	Ph.Eur.2.8.18	ppb	NMT 4ppb	0.025	not detected

Confirmation:

The test was carried out in accordance with recognised GMP regulations and agreed specifications. Within the scope of the tests carried out, the present sample complies with the indicated specification. The test was carried out by a GMP certified and SAHPRA licensed facility.

OCHRATOXIN A | LC-MS/MS | DATE ANALYSED: 2023-07-14

Parameter	Method	Unit	Specification	LOQ	Result
Ochratoxin A *	Ph.Eur.2.8.22	ppb	NMT 20ppb	0.025	not detected

Confirmation:

The test was carried out in accordance with recognised GMP regulations and agreed specifications. Within the scope of the tests carried out, the present sample complies with the indicated specification. The test was carried out by a GMP certified and SAHPRA licensed facility.

TERPENES | GC-FID | DATE ANALYSED: 2023-07-13

Parameter	Unit	Result
Alpha-Bisabolol*	mg/g	0.165
Alpha-Humulene*	mg/g	0.885
Alpha-Pinene*	mg/g	0.721
Alpha-Terpinene*	mg/g	not detected
Beta-Caryophyllene*	mg/g	1.874
Beta-Myrcene*	mg/g	0.477
Beta-Pinene*	mg/g	0.921
Camphene*	mg/g	0.262
Cis-Nerolidol*	mg/g	not detected
Delta-3-Carene*	mg/g	not detected
Gamma-Terpinene*	mg/g	not detected
Geraniol*	mg/g	not detected
Guaiol*	mg/g	0.588
Isopulegol*	mg/g	not detected
Limonene*	mg/g	4.481
Linalool*	mg/g	1.562
Ocimene*	mg/g	1.235
Para-Cymene*	mg/g	not detected
Terpinolene*	mg/g	not detected
Total Nerolidol*	mg/g	not detected
Trans-Nerolidol*	mg/g	not detected

Subcontracted Analyses

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HEAVY METALS | ICP-MS | DATE ANALYSED: 2023-07-21

Parameter	Method	Unit	Specification	LOQ	Result
Mercury *	Ph.Eur.2.4.27	ppm	NMT 0.5ppm	< 0.01	<0.01
Lead *	Ph.Eur.2.4.27	ppm	NMT 5.0ppm	< 0.01	0.03
Arsenic *	Ph.Eur.2.4.27	ppm	NMT 3.0 ppm	< 0.01	0.02
Cadmium *	Ph.Eur.2.4.27	ppm	NMT 0.5ppm	< 0.01	0.03
Nickel *	-	ppm	N/A	-	0.25
Zinc *	-	ppm	N/A	-	167.06

Subcontracted Analyses

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FOREIGN MATTER | DATE ANALYSED: 2023-07-18

Parameter	Method	Unit	Specification	LOQ	Result
Foreign Matter *	Ph.Eur.2.8.2	%	<= 2% (m/m)	N/A	<2

Confirmation:

The test was carried out in accordance with recognised GMP regulations and agreed specifications. Within the scope of the tests carried out, the present sample complies with the indicated specification. The test was carried out by a GMP certified and SAHPRA licensed facility.

TOTAL ASH | DATE ANALYSED: 2023-07-14

Parameter	Method	Unit	Specification	LOQ	Result
Total Ash Content *	Ph.Eur.2.4.16	%	<= 20%	N/A	10.58

Confirmation:

The test was carried out in accordance with recognised GMP regulations and agreed specifications. Within the scope of the tests carried out, the present sample complies with the indicated specification. The test was carried out by a GMP certified and SAHPRA licensed facility.

PESTICIDES | LC-MS/MS & GC-MS/MS | DATE ANALYSED: 2023-07-26

Parameter	Method	Unit	Specification	LOQ	Result
(E)-Chlorfenvinphos*	-	mg/kg	N/A	-	not detected
(Z)-Chlorfenvinphos*	-	mg/kg	N/A	-	not detected
2,4-Methoxychlor*	-	mg/kg	N/A	-	not detected
Acephate *	Ph.Eur.2.8.13	mg/kg	NMT 0.10	< 0.01	not detected
Alachlor *	Ph.Eur.2.8.13	mg/kg	NMT 0.05	< 0.01	not detected
Aldrin*	-	mg/kg	N/A	-	not detected
alpha-BHC*	-	mg/kg	N/A	-	not detected
alpha-Endosulfan*	-	mg/kg	N/A	-	not detected

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Azinphos-ethyl*	Ph.Eur.2.8.13	mg/kg	NMT 0.10	< 0.01	not detected
Azinphos-methyl*	Ph.Eur.2.8.13	mg/kg	NMT 1.00	< 0.01	not detected
beta-BHC*	-	mg/kg	N/A	-	not detected
beta-Endosulfan*	-	mg/kg	N/A	-	not detected
Bromophos-ethyl *	Ph.Eur.2.8.13	mg/kg	NMT 0.05	< 0.01	not detected
Bromopropylate*	Ph.Eur.2.8.13	mg/kg	NMT 3.00	< 0.01	not detected
Chlorpyrifos*	-	mg/kg	N/A	-	not detected
Chlorpyrifos-methyl *	Ph.Eur.2.8.13	mg/kg	NMT 0.10	< 0.01	not detected
Chlorthal - dimethyl *	Ph.Eur.2.8.13	mg/kg	NMT 0.01	< 0.01	not detected
cis-Chlordane*	-	mg/kg	N/A	-	not detected
cis-Permethrine*	-	mg/kg	N/A	-	not detected
Cyfluthrin-1*	-	mg/kg	N/A	-	not detected
Cyfluthrin-2*	-	mg/kg	N/A	-	not detected
Cyfluthrin-3*	-	mg/kg	N/A	-	not detected
Cyfluthrin-4*	-	mg/kg	N/A	-	not detected
Cypermethrin-1*	-	mg/kg	N/A	-	not detected
Cypermethrin-2*	-	mg/kg	N/A	-	not detected
Cypermethrin-3*	-	mg/kg	N/A	-	not detected
Cypermethrin-4*	-	mg/kg	N/A	-	not detected
delta-BHC*	-	mg/kg	N/A	-	not detected
Deltamethrin-1*	-	mg/kg	N/A	-	not detected
Deltamethrin-2*	-	mg/kg	N/A	-	not detected
Diazinon *	Ph.Eur.2.8.13	mg/kg	NMT 0.50	< 0.01	not detected
Dichlofluanid *	Ph.Eur.2.8.13	mg/kg	NMT 0.10	< 0.01	not detected
Dichlorvos *	Ph.Eur.2.8.13	mg/kg	NMT 1.00	< 0.01	not detected
Dieldrin *	-	mg/kg	N/A	-	not detected
Dimethoate*	-	mg/kg	N/A	-	not detected
Endosulfan ether*	-	mg/kg	N/A	-	not detected
Endrin *	Ph.Eur.2.8.13	mg/kg	NMT 0.05	< 0.01	not detected
Ethion *	Ph.Eur.2.8.13	mg/kg	NMT 2.00	< 0.01	not detected
Fenchlorphos*	-	mg/kg	N/A	-	not detected
Fenitrothion *	Ph.Eur.2.8.13	mg/kg	NMT 0.50	< 0.01	not detected
Fenpropathrin*	Ph.Eur.2.8.13	mg/kg	NMT 0.03	< 0.01	not detected
Fenthion*	Ph.Eur.2.8.13	mg/kg	NMT 0.05	< 0.01	not detected
Fonofos*	Ph.Eur.2.8.13	mg/kg	NMT 0.05	< 0.01	not detected
gamma-BHC (Lindane)*	Ph.Eur.2.8.13	mg/kg	NMT 0.60	< 0.01	not detected
Heptachlor*	Ph.Eur.2.8.13	mg/kg	NMT 0.05	< 0.01	not detected

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Hexachlorobenzene *	Ph.Eur.2.8.13	mg/kg	NMT 0.10	< 0.01	not detected
lambda-Cyhalothrin*	Ph.Eur.2.8.13	mg/kg	NMT 1.00	< 0.01	not detected
Malaoxon *	-	mg/kg	N/A	-	not detected
Malathion*	-	mg/kg	N/A	-	not detected
Mecarbam *	Ph.Eur.2.8.13	mg/kg	NMT 0.05	< 0.01	not detected
Methacrifos*	Ph.Eur.2.8.13	mg/kg	NMT 0.05	< 0.01	not detected
Methamidophos *	Ph.Eur.2.8.13	mg/kg	NMT 0.05	< 0.01	not detected
Methidathion *	Ph.Eur.2.8.13	mg/kg	NMT 0.20	< 0.01	not detected
Methoxychlor *	Ph.Eur.2.8.13	mg/kg	NMT 0.05	< 0.01	not detected
Mirex *	Ph.Eur.2.8.13	mg/kg	NMT 0.01	< 0.01	not detected
Monocrotophos *	Ph.Eur.2.8.13	mg/kg	NMT 0.10	< 0.01	not detected
o,p-DDD*	-	mg/kg	N/A	-	not detected
o,p-DDE*	-	mg/kg	N/A	-	not detected
o,p-DDT*	-	mg/kg	N/A	-	not detected
Omethoate *	-	mg/kg	N/A	-	not detected
p,p-DDD*	-	mg/kg	N/A	-	not detected
p,p-DDE*	-	mg/kg	N/A	-	not detected
p,p-DDT*	-	mg/kg	N/A	-	not detected
Paraoxon-Ethyl*	-	mg/kg	N/A	-	not detected
Parathion*	-	mg/kg	N/A	-	not detected
Parathion-methyl*	-	mg/kg	N/A	-	not detected
Pendimethalin *	Ph.Eur.2.8.13	mg/kg	NMT 0.50	< 0.01	not detected
Pentachlorothioanisole*	-	mg/kg	N/A	-	not detected
Permethrin-1*	-	mg/kg	N/A	-	not detected
Permethrin-2*	-	mg/kg	N/A	-	not detected
Phosalone *	Ph.Eur.2.8.13	mg/kg	NMT 0.10	< 0.01	not detected
Phosmet *	Ph.Eur.2.8.13	mg/kg	NMT 0.05	< 0.01	not detected
Piperonyl butoxide *	Ph.Eur.2.8.13	mg/kg	NMT 3.00	< 0.01	not detected
Pirimiphos ethyl *	Ph.Eur.2.8.13	mg/kg	NMT 0.05	< 0.01	not detected
Pirimiphos-methyl*	Ph.Eur.2.8.13	mg/kg	NMT 4.00	< 0.01	not detected
Procymidone *	Ph.Eur.2.8.13	mg/kg	NMT 0.10	< 0.01	not detected
Profenofos*	Ph.Eur.2.8.13	mg/kg	NMT 0.10	< 0.01	not detected
Prothiofos*	Ph.Eur.2.8.13	mg/kg	NMT 0.05	< 0.01	not detected
Quinalphos *	Ph.Eur.2.8.13	mg/kg	NMT 0.05	< 0.01	not detected
S-421 *	Ph.Eur.2.8.13	mg/kg	NMT 0.02	< 0.01	not detected
Tecnazene *	Ph.Eur.2.8.13	mg/kg	NMT 0.05	< 0.01	not detected
Tetradifon *	Ph.Eur.2.8.13	mg/kg	NMT 0.30	< 0.01	not detected

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trans-Chlordane*	-	mg/kg	N/A	-	not detected
trans-Permethrine*	-	mg/kg	N/A	-	not detected
Vinclozolin *	Ph.Eur.2.8.13	mg/kg	NMT 0.40	< 0.01	not detected

Subcontracted Analyses

Confirmation:

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MICROBIOLOGICAL ANALYSIS – TAMC, TYMC, BILE TOLERANT GRAM-NEGATIVE COUNT, E. COLI, SALMONELLA | DATE ANALYSED: 2023-07-11

Parameter	Method	Unit	Specification	LOQ	Result
Total Aerobic Microbial Count *	Ph.Eur.2.6.12	cfu/g	<=200 cfu per g/ml	-	190
Total Bile tolerant Gram-Negative Count	Ph.Eur.2.6.31	/g	Absent per g/ml	-	absent
Total Yeast and Moulds *	Ph.Eur.2.6.12	cfu/g	<= 20 cfu per g/ml	-	absent
Salmonella *	Ph.Eur.2.6.31	/10g	N/A	-	absent
E.Coli *	Ph.Eur.2.6.31	/g	N/A	-	absent

Confirmation:

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MICROBIOLOGICAL ANALYSIS – STAPHYLOCOCCUS AUREUS | DATE ANALYSED: 2023-07-11

Parameter	Method	Unit	Specification	LOQ	Result
S.aureus *	Ph.Eur.2.6.13	/g	Absent per g/ml	-	absent

Confirmation:

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Caitlyn McCartney
Laboratory Manager - RP

VIN-05-
M01,M02,M03,M04,M05,M08,M10,M28,
M40,MW07, MW09, MW10, MW12,
MW13, MW14, VIN-05-M42, M44, M45,
MW01, MW02, MW03, MW04, MW08,
MW43, VIN-05-M48, M49, M50, M51,
M52, M53, M54, M55, M46

Confirmation Statement:

I, hereby confirm that the sample(s) received have been analysed in compliance with the Contract Giver's product analysis methodology in accordance with the Technical Quality Agreement between both parties and in full compliance with the required SAHPRA GMP standards. Furthermore, I hereby confirm that Vinlab (Pty) Ltd is in possession of a valid SAHPRA license to perform the required analysis as stipulated in the Technical Quality Agreement.

H.Smit
Director

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Sample No: 3299340

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Appendix A - Photographs



Image 1 - Sample in packaging as received from client

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