

# Certificate of Analysis

## No. 840 - 001

### Medi Extract Eastern Cape (Pty) Ltd

Attn: Bertha De Carvalho  
3 Hoof Street  
Joubertina  
Eastern Cape  
6410  
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2024-03-05

Sample No: 3398511

COA on flowers is reported on a dry basis for  
Cannabinoids, Toxins, Metals & Pesticides

Batch Number: Coffee breath  
Product Description: Coffee breath  
Sample Type: Flower

Date Manufactured: N/A  
Date Received: 2024-02-14  
Seal: Sealed  
Condition: Good

Expiry date (if applicable): Oct 2025  
Analysis Start Date: 2024-02-14  
Packaging: Sealed

#### CANNABINOIDS | HPLC-UV/DAD | DAB MONOGRAPH | DATE ANALYSED: 2024-02-29

Parameter	Method	Unit	Result
Cannabidivarin (CBDV)	VIN-05-M46/ Ph. Eur.2.2.29	%w/w	0.0
Tetrahydrocannabivarin (THCV)	VIN-05-M46/ Ph. Eur.2.2.29	%w/w	0.0
Cannabidiol (CBD)	VIN-05-M46/ Ph. Eur.2.2.29	%w/w	0.0
Cannabidiolic Acid (CBDA)	VIN-05-M46/ Ph. Eur.2.2.29	%w/w	0.0
Cannabigerol (CBG)	VIN-05-M46/ Ph. Eur.2.2.29	%w/w	0.1
Cannabinol (CBN)	VIN-05-M46/ Ph. Eur.2.2.29	%w/w	0.0
Cannabigerolic Acid (CBGA)	VIN-05-M46/ Ph. Eur.2.2.29	%w/w	1.2
Delta-9-Tetrahydrocannabinol (d9-THC)	VIN-05-M46/ Ph. Eur.2.2.29	%w/w	1.2
Delta-8-Tetrahydrocannabinol (d8-THC)	VIN-05-M46/ Ph. Eur.2.2.29	%w/w	0.0
Cannabichromene (CBC)	VIN-05-M46/ Ph. Eur.2.2.29	%w/w	0.0
Tetrahydrocannabinolic Acid (THCA)	VIN-05-M46/ Ph. Eur.2.2.29	%w/w	37.8
% THC Total *	VIN-05-M46/ Ph. Eur.2.2.29	%w/w	34.4
% CBD Total*	VIN-05-M46/ Ph. Eur.2.2.29	%w/w	0.0
% CBG Total*	VIN-05-M46/ Ph. Eur.2.2.29	%w/w	1.2

#### AFLATOXINS | LC-MS/MS | DATE ANALYSED: 2024-02-16

Parameter	Method	Unit	Specification	LOQ	Result
Aflatoxin B1 *	Ph.Eur.2.8.18	ppb	NMT 2ppb	0.025	not detected

Caitlyn McCartney  
Laboratory Manager - RP  
VIN-05-M46,M70,M86

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Aflatoxin B2 *	-	ppb	N/A	-	not detected
Aflatoxin G1 *	-	ppb	N/A	-	not detected
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: 2024-02-16**

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: 2024-02-15**

Parameter	Method	Unit	Result	%Weight
Alpha-Bisabolol*	VIN-05-M72	mg/g	0.882	0.0882
Alpha-Humulene*	VIN-05-M72	mg/g	2.435	0.2435
Alpha-Pinene*	VIN-05-M72	mg/g	1.135	0.1135
Alpha-Terpinene*	VIN-05-M72	mg/g	0.006	0.0006
Beta-Caryophyllene*	VIN-05-M72	mg/g	4.513	0.4513
Beta-Myrcene*	VIN-05-M72	mg/g	not detected	
Beta-Pinene*	VIN-05-M72	mg/g	1.140	0.114
Camphene*	VIN-05-M72	mg/g	0.264	0.0264
Cis-Nerolidol*	VIN-05-M72	mg/g	not detected	
Delta-3-Carene*	VIN-05-M72	mg/g	2.489	0.2489
Gamma-Terpinene*	VIN-05-M72	mg/g	0.012	0.0012
Geraniol*	VIN-05-M72	mg/g	not detected	
Guaiol*	VIN-05-M72	mg/g	0.010	0.001
Isopulegol*	VIN-05-M72	mg/g	0.058	0.0058
Limonene*	VIN-05-M72	mg/g	8.441	0.8441
Linalool*	VIN-05-M72	mg/g	0.684	0.0684
Ocimene*	VIN-05-M72	mg/g	0.794	0.0794
Para-Cymene*	VIN-05-M72	mg/g	not detected	
Terpinolene*	VIN-05-M72	mg/g	0.086	0.0086

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Total Nerolidol*	VIN-05-M72	mg/g	not detected
Trans-Nerolidol*	VIN-05-M72	mg/g	not detected
Total % Weight			2.2949

#### HEAVY METALS | ICP-MS | DATE ANALYSED: 2024-02-28

Parameter	Method	Unit	Specification	LOQ	Result
Mercury *	Ph.Eur.2.4.27	ppm	NMT 0.5ppm	< 0.05	<0.05
Lead *	Ph.Eur.2.4.27	ppm	NMT 5.0ppm	< 0.05	<0.05
Arsenic *	Ph.Eur.2.4.27	ppm	NMT 3.0 ppm	< 0.01	0.03
Cadmium *	Ph.Eur.2.4.27	ppm	NMT 0.5ppm	< 0.01	0.03
Nickel *	-	ppm	N/A	-	0.55
Zinc *	-	ppm	N/A	-	66.40

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.

#### FOREIGN MATTER | DATE ANALYSED: 2024-03-01

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: 2024-02-22

Parameter	Method	Unit	Specification	LOQ	Result
Total Ash Content *	Ph.Eur.2.4.16	%	<= 20%	N/A	9.21

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 | DATE ANALYSED: 2024-02-16

Parameter	Method	Unit	Specification	LOQ	Result
Acephate *	Ph.Eur.2.8.13	mg/kg	NMT 0.10	< 0.01	not detected
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
Boscalid *	-	mg/kg	N/A	-	not detected

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Bromophos-ethyl *	Ph.Eur.2.8.13	mg/kg	NMT 0.05	< 0.01	not detected
Chlorfenvinphos*	Ph.Eur.2.8.13	mg/kg	NMT 0.50	< 0.01	not detected
Chlorpyrifos-methyl *	Ph.Eur.2.8.13	mg/kg	NMT 0.10	< 0.01	not detected
Cinerin I*	-	mg/kg	N/A	-	not detected
Cinerin II*	-	mg/kg	N/A	-	not detected
Cyfluthrin*	Ph.Eur.2.8.13	mg/kg	NMT 0.10	< 0.01	not detected
Cypermethrin*	Ph.Eur.2.8.13	mg/kg	NMT 1.00	< 0.01	not detected
Deltamethrin *	Ph.Eur.2.8.13	mg/kg	NMT 0.50	< 0.01	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
Dimethoate*	-	mg/kg	N/A	-	not detected
Endosulfan*	Ph.Eur.2.8.13	mg/kg	NMT 3.00	< 0.01	not detected
Ethion *	Ph.Eur.2.8.13	mg/kg	NMT 2.00	< 0.01	not detected
Etrimphos *	Ph.Eur.2.8.13	mg/kg	NMT 0.05	< 0.01	not detected
Fenchlorphos-oxon*	-	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
Fensulfothion*	-	mg/kg	N/A	-	not detected
Fensulfothion-oxon*	-	mg/kg	N/A	-	not detected
Fensulfothion-oxon-sulfone*	-	mg/kg	N/A	-	not detected
Fensulfothion-sulfone*	-	mg/kg	N/A	-	not detected
Fenthion*	-	mg/kg	N/A	-	not detected
Fenthion-oxon*	-	mg/kg	N/A	-	not detected
Fenthion-oxon-sulfone*	-	mg/kg	N/A	-	not detected
Fenthion-oxon-sulfoxide*	-	mg/kg	N/A	-	not detected
Fenthion-sulfone*	-	mg/kg	N/A	-	not detected
Fenthion-sulfoxide*	-	mg/kg	N/A	-	not detected
Fenvalerate *	Ph.Eur.2.8.13	mg/kg	NMT 1.50	< 0.01	not detected
Flucytrinate *	Ph.Eur.2.8.13	mg/kg	NMT 0.05	< 0.01	not detected
Fluvalinate*	Ph.Eur.2.8.13	mg/kg	NMT 0.05	< 0.01	not detected
Fonophos *	Ph.Eur.2.8.13	mg/kg	NMT 0.05	< 0.01	not detected
Jasmolin I*	-	mg/kg	N/A	-	not detected
Jasmolin II*	-	mg/kg	N/A	-	not detected

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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
Methacriphos *	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
Monocrotophos *	Ph.Eur.2.8.13	mg/kg	NMT 0.10	< 0.01	not detected
Omethoate *	-	mg/kg	N/A	-	not detected
Paraoxon-Ethyl*	-	mg/kg	N/A	-	not detected
Paraoxon-Methyl*	-	mg/kg	N/A	-	not detected
Parathion ethyl*	-	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
Permethrin*	Ph.Eur.2.8.13	mg/kg	NMT 1.00	< 0.01	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
Pirimicarb *	-	mg/kg	N/A	-	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
Pyrethrin I*	-	mg/kg	N/A	-	not detected
Pyrethrin II*	-	mg/kg	N/A	-	not detected
Quinalphos *	Ph.Eur.2.8.13	mg/kg	NMT 0.05	< 0.01	not detected
Spinosad A*	-	mg/kg	N/A	-	not detected
Spinosad D*	-	mg/kg	N/A	-	not detected
Vinclozolin *	Ph.Eur.2.8.13	mg/kg	NMT 0.40	< 0.01	not detected

Confirmation:

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**MICROBIOLOGICAL ANALYSIS – TAMC, TYMC, BILE TOLERANT GRAM-NEGATIVE COUNT, E. COLI, SALMONELLA | DATE ANALYSED: 2024-02-14**

Parameter	Method	Unit	Specification	LOQ	Result
Total Aerobic Microbial Count *	Ph.Eur.2.6.12	cfu/g	<=200 cfu per g/ml	-	10
Bile Tolerant Gram-Negative Count *	Ph.Eur.2.6.31	cfu/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: 2024-02-14**

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

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.

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 Pharma (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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Laboratory Manager - RP  
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## Appendix A - Photographs



Image 1 - Sample in packaging as received from client

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