

# Certificate of Analysis

No. 302 - 001

Medi Extract Eastern Cape (Pty) Ltd

Attn: Jan Boshoff  
3 Hoof Street  
Joubertina  
Eastern Cape  
6410  
+27824429698

2023-09-15

Sample No: 3323426

Batch Number: Kosher Kush

Product Description: Kosher Kush-67gram

Sample Type: Flower

Date Manufactured: Jul-23

Date Received: 2023-08-25

Seal: Vacuum sealed 90 GSM bag

Condition: Good

Expiry date (if applicable): Nov-24

Analysis Start Date: 2023-08-25

Packaging: Vacuum sealed 90 GSM bag

## CANNABINOIDS | HPLC-UV | DAB MONOGRAPH | DATE ANALYSED: 2023-08-29

| Parameter                             | Method                     | Unit | Result |
|---------------------------------------|----------------------------|------|--------|
| Cannabidiol (CBD)                     | VIN-05-M46/ Ph. Eur.2.2.29 | wt%  | 0.1    |
| Tetrahydrocannabinol (THCV)           | VIN-05-M46/ Ph. Eur.2.2.29 | wt%  | 0.2    |
| 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%  | 0.1    |
| Cannabigerol (CBG)                    | VIN-05-M46/ Ph. Eur.2.2.29 | wt%  | 0.0    |
| 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%  | 1.4    |
| Delta-9-Tetrahydrocannabinol (d9-THC) | VIN-05-M46/ Ph. Eur.2.2.29 | wt%  | 0.3    |
| 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%  | 24.4   |
| % THC Total *                         | VIN-05-M46/ Ph. Eur.2.2.29 | wt%  | 21.7   |
| % CBD Total*                          | VIN-05-M46/ Ph. Eur.2.2.29 | wt%  | 0.1    |
| % CBG Total*                          | VIN-05-M46/ Ph. Eur.2.2.29 | wt%  | 1.2    |

Cannabinoids on flowers are reported on a dry basis

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

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**TERPENES | GC-FID | DATE ANALYSED: 2023-08-31**

| Parameter           | Unit | Result       | %Weight |
|---------------------|------|--------------|---------|
| Alpha-Bisabolol*    | mg/g | 0.110        | 0.011   |
| Alpha-Humulene*     | mg/g | 1.252        | 0.1252  |
| Alpha-Pinene*       | mg/g | 0.624        | 0.0624  |
| Alpha-Terpinene*    | mg/g | 0.011        | 0.0011  |
| Beta-Caryophyllene* | mg/g | 2.615        | 0.2615  |
| Beta-Myrcene*       | mg/g | 0.576        | 0.0576  |
| Beta-Pinene*        | mg/g | 0.578        | 0.0578  |
| Camphene*           | mg/g | 0.165        | 0.0165  |
| Cis-Nerolidol*      | mg/g | 0.359        | 0.0359  |
| Delta-3-Carene*     | mg/g | not detected |         |
| Gamma-Terpinene*    | mg/g | 0.008        | 0.0008  |
| Geraniol*           | mg/g | not detected |         |
| Guaiol*             | mg/g | 0.401        | 0.0401  |
| Isopulegol*         | mg/g | 0.047        | 0.0047  |
| Limonene*           | mg/g | 6.577        | 0.6577  |
| Linalool*           | mg/g | 2.327        | 0.2327  |
| Ocimene*            | mg/g | 3.035        | 0.3035  |
| Para-Cymene*        | mg/g | not detected |         |
| Terpinolene*        | mg/g | 0.058        | 0.0058  |
| Total Nerolidol*    | mg/g | 0.439        | 0.0439  |
| Trans-Nerolidol*    | mg/g | 0.081        | 0.0081  |
| Total % Weight      |      |              | 1.9263  |

**HEAVY METALS | ICP-MS | DATE ANALYSED: 2023-08-30**

| 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 | 0.38   |
| Arsenic * | Ph.Eur.2.4.27 | ppm  | NMT 3.0 ppm   | < 0.01 | 0.28   |
| Cadmium * | Ph.Eur.2.4.27 | ppm  | NMT 0.5ppm    | < 0.01 | 0.34   |
| Nickel *  | -             | ppm  | N/A           | -      | 0.87   |
| Zinc *    | -             | ppm  | N/A           | -      | 136.42 |



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VIN-05-M46,M70,M86

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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: 2023-09-04**

| 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: 2023-08-31**

| Parameter           | Method        | Unit | Specification | LOQ | Result |
|---------------------|---------------|------|---------------|-----|--------|
| Total Ash Content * | Ph.Eur.2.4.16 | %    | <= 20%        | N/A | 10.37  |

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: 2023-09-07**

| 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 |
| 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 |

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|                        |               |       |          |        |              |
|------------------------|---------------|-------|----------|--------|--------------|
| 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 |
| 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 |
| Malaaxon *             | -             | mg/kg | N/A      | -      | not detected |
| Malathion*             | -             | mg/kg | N/A      | -      | not detected |

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|-------------------------|---------------|-------|----------|--------|--------------|
| 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 |
| trans-Chlordane*        | -             | mg/kg | N/A      | -      | not detected |

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

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|--------------------|---------------|-------|----------|--------|--------------|
| 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:**

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.

**MICROBIOLOGICAL ANALYSIS – TAMC, TYMC, BILE TOLERANT GRAM-NEGATIVE COUNT, E. COLI, SALMONELLA | DATE ANALYSED: 2023-08-25**

| Parameter                               | Method        | Unit  | Specification      | LOQ | Result |
|---|---------------|-------|--------------------|-----|--------|
| Total Aerobic Microbial Count *         | Ph.Eur.2.6.12 | cfu/g | <=200 cfu per g/ml | -   | 130    |
| Total 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 | -   | 14     |
| 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: 2023-08-25**

| 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 (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



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

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## Appendix A - Photographs

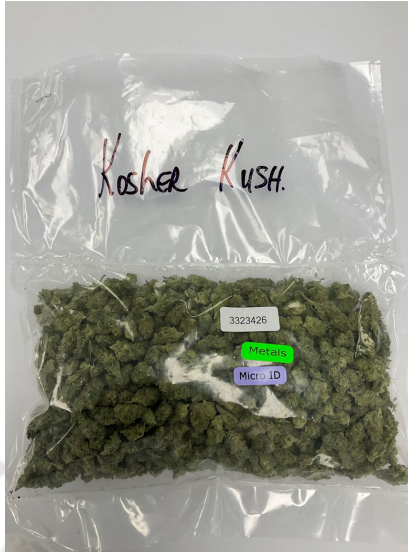


Image 1 - Sample in packaging as received from client

Caitlyn McCartney  
Laboratory Manager - RP  
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