

**CERTIFICATE OF ANALYSIS (COA)**

**Medical Cannabis Inflorescences T20C4, 10g**

<b>Document No.:</b>	<b>COA-FP-FT20C4</b>	<b>Section:</b>	<b>QC</b>	<b>Page 1 of 3</b>
<b>Version:</b>	<b>03</b>	<b>Effective Date:</b>	<b>14-11-2022</b>	

<b>Product Name:</b> Calma Inflorescences, T20C4 Indica	<b>Item code:</b> F CAL20
<b>Batch Number:</b> F-CAL1222698	<b>Sample lab-number:</b> TOL-22-1833, TOL-22-1715

<b>Batch size (Kg):</b> 20.62 <b>Units:</b> 2062	<b>Assay calculated by KF/LOD:</b> LOD
<b>Manufacturer:</b> OLAM C. PRODUCTION	<b>Manufacturing date:</b> 14/12/2022
<b>Sampling date:</b> 16/11/2022, 20/12/2022	<b>Expiry date:</b> 12/2023
<b>Storage conditions:</b> RT	<b>COA No.:</b> 1557-22
<b>Stability interval\ conditions (if applicable):</b> NA	
<b>Date of analysis:</b> 22/12/2022, 24/11/2022, 28/11/2022, 28/12/2022, 29/12/2022 (COA date)	

Test	Specifications	Results	Units	Method	Conclusion Pass\Fail	Testing Site
<b>Appearance</b>	Brown to green clustered flowers	Complies	NA	Visual Inspection TO-LAB-21	Pass	Tikun-Olam
<b>Fineness</b>	No leaves shooting out more than 10% of the length of the flowers	Complies	NA	Visual Inspection TO-LAB-21	Pass	Tikun-Olam
<b>Identification</b>	The retention time of the main observed cannabinoids conforms to standard	Complies	NA	HPLC	Pass	Tikun-Olam

<b>Assay of Cannabinoids by HPLC (calculated on dried basis)</b>						
Cannabidiolic Acid (CBDA)	For Information Only	<0.1	%	In house procedure (TO-LAB-40.14) According to Ph. Eur 2.2.46 / USP 621 requirements	Pass	Tikun-Olam
Cannabidiol (CBD)		ND	%			
tCBD <sup>1</sup>	0-7	<0.1	%			
Tetrahydrocannabinol Acid (THCA)	For Information Only	20.7	%			
Tetrahydrocannabinol (THC <sup>Δ9</sup> )		1.5	%			
tTHC <sup>2</sup>	16-24	20	%			
Cannabichromenic Acid (CBCA)	For Information Only	0.3	%			
Cannabichromene (CBC)		<0.1	%			
Cannabigerolic Acid (CBGA)		0.2	%			
Cannabigerol (CBG)		<0.1	%			
Cannabidivarin (CBDV)		ND	%			

<sup>1</sup> tCBD = 0.877\*[CBDA] + [CBD]

<sup>2</sup> tTHC = 0.877\*[THCA] + [THC]

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Tetrahydrocannabivarin (THCV)		ND	%			
Delta-8 Tetrahydrocannabinol (THC <sup>Δ8</sup> )		ND	%			
Cannabinol (CBN)	N.M.T 1.5	<0.1	%		Pass	
<b>Foreign Matter Test</b>	Absence of pests. N.M.T. 2% m/m from plant origin and other foreign material.	Complies	NA	Visual Inspection TO-LAB-20	Pass	Tikun-Olam
<b>Loss on Drying</b>	6-14	14	%	In house procedure (TO-LAB-40.09) based on Ph. Eur. 2.2.32	Pass	Tikun-Olam
<b>Karl Fischer</b>	6-14	NA	%	In house procedure (TO-LAB-40.10) according to Ph. Eur. 2.5.12/ USP 291	NA	NA
<b>Heavy Metals</b>						
Arsenic (As)	N.M.T 2.5	<0.5	ppm	ICP-MS	Pass	Bactochem
Cadmium (Cd)	N.M.T 0.5	<0.1	ppm		Pass	
Mercury (Hg)	N.M.T 0.1	<0.1	ppm		Pass	
Nickel (Ni)	Indicative	<0.5	ppm			
Lead (Pb)	N.M.T 5.0	<1.0	ppm		Pass	
Zinc (Zn)	Indicative	72.308	ppm			
<b>Pesticides Residues</b>						
Pesticides Residues	According to 152 SOP	ND	mg/kg	GC/MS LC/MS	Pass	Bactochem
<b>Microbiology</b>						
Total Aerobic Microbial Count (TAMC)	N.M.T 20,000	<1000	CFU/g	Ph. Eur 2.6.12/ USP <61>	Pass	Institute For Food Microbiology
Total Yeasts and Molds Count (TYMC)	N.M.T 2,000	<100	CFU/g	Ph. Eur 2.6.12/ USP <61>	Pass	
E.coli	N.M.T 20	ND	CFU/g	Ph. Eur 2.6.13/ USP <62>	Pass	
Salmonella	Negative	ND	NA	Ph. Eur 2.6.13/ USP <62>	Pass	
Enterobacteriaceae <sup>3</sup>	N.M.T 20	ND	CFU/g	Ph. Eur 2.6.13/ USP <62>	Pass	
Staphylococcus aureus	Negative	ND	NA	Ph. Eur 2.6.13/ USP <62>	Pass	

<sup>3</sup> Bile Tolerance Presence

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Pseudomonas aeruginosa	Negative	ND	NA	Ph. Eur 2.6.13/ USP <62>	Pass	
<b>Mycotoxins</b>						
Ochratoxin A	N.M.T 2	<0.5	µg/kg	HPLC	Pass	Bactochem
Aflatoxin - B1	N.M.T 2	ND	µg/kg		Pass	
Total-Aflatoxins (B1, B2, G1, G2)	N.M.T 4	ND	µg/kg		Pass	

All tests comply with current specification SPC-FP-F-T20C4.

Documentation reference:

TO-LAB-20-02 TO-LAB-21-02 COA 1545-22 COA 975155 COA 974231 COA 22-622823 COA 985051
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Approved by:

Tsiona Nehemia, Analytical Laboratory Manager / Hen Nehemia, Authorized Laboratory Technician

 Date: 30.11.2022

Reviewed and authorized by:

Elinor Cohen, Quality Assurance Manager / Shani Carmi, Head Pharmacist, QP / Reem Odi, Pharmacist, CQP

**תיקון אולם**  
**התורה**  
3-755727 ר.ח

Date: 01/10/2023

Approvals:

	Name	Title	Signature	Date
<b>Approved by:</b>	Tsiona Nehemia	Lab Manager	<b>**Signed_Electronically**</b>	09-11-2022 16:49
<b>Approved by:</b>	Elinor Cohen	QA Manager	<b>**Signed_Electronically**</b>	09-11-2022 19:13