



CANNABIDIOL PHARMA (DAC)

MANUFACTURER BATCH: 19M20337		SUPPLIER BATCH: 10300017		METAPH BATCH: 0120719	
CERTIFICATE ID: 26.438		PRODUCT CODE: 151306			
MANUFACTURING DATE: 01/05/2019		CAS N°: 13956-29-1			
EXPIRY DATE: 30/04/2021		ANALYSIS N°: 124/19			

ATTRIBUTES	SHOULD BE	IS
Appearance	White to pale yellow powder	White powder (*)
Identification IR	Complies	Complies (*)
Melting point	65.0 - 69.0 °C	68.0 °C
Specific optical rotation	-132.5 / -129.5	-130.4
Sulfated ash	=< 0.1 %	0.10 %
Water	=< 1.0 %	< 0.01 %
Related substances		
Olivetol	=< 0.15 %	< 0.05 %
Olivetol Methylester	=< 0.15 %	< 0.05 %
(+)-Menthadienol	=< 0.15 %	< 0.05 %
CBD carboxylic acid methyl ester	=< 0.15 %	< 0.05 %
CBD hydroxyethyl ester	=< 0.15 %	< 0.05 %
Unspecified impurities	=< 0.10 %	< 0.05 %
Total impurities	=< 2.0 %	< 0.10 %
THC D8 + D9	< 0.05 %	< 0.05 % (*)
Assay (o.d.b.)	98.0 - 102.0 %	100.4 % (*)
Residual solvents		
Diethyleter	=< 5000 ppm	< 3 ppm
Benzene	=< 2 ppm	< 0.1 ppm
Toluene	=< 890 ppm	< 2 ppm
Ethylene glycol	=< 620 ppm	< 93 ppm
n-Heptane	=< 5000 ppm	239 ppm

Analysis date: 18/07/2019
Signature: Ferran Gonzalez de Rivera Riera (QA/QP)
Conclusion: Complies
Original certificate available upon request

Manufacturer: 40000971



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ATTRIBUTES	SHOULD BE	IS
Metals and heavy metals		
Manganese	=< 25 ppm	< 3 ppm
Arsenic	=< 1.5 ppm	< 0.20 ppm
Lead	=< 0.5 ppm	< 0.10 ppm
Cadmium	=< 0.2 ppm	< 0.01 ppm
Mercury	=< 0.3 ppm	< 0.01 ppm
Nickel	=< 2 ppm	< 0.10 ppm
Copper	=< 30 ppm	< 3 ppm
Iron	=< 25 ppm	< 5 ppm
Cobalt	=< 0.5 ppm	< 0.10 ppm
Vanadium	=< 1 ppm	< 0.10 ppm
Boron	=< 25 ppm	< 25 ppm
Tin	=< 25 ppm	< 3 ppm
Chromium	=< 25 ppm	< 3 ppm
Molybdenum	=< 25 ppm	< 3 ppm
Tungsten	=< 25 ppm	< 3 ppm

COMPLIES WITH

DAC - Manufacturer Specifications

REMARKS

Cannabidiol is subjected to the requirements of the ICH Q3D "Elemental Impurities" guideline.

Certificates of residual solvents, allergens, non-GMO and BSE-TSE are available upon request.

(*) Data controlled by Metapharmaceutical Industrial SL.

(**) According to the requirements of guides EMA/CHMP/ICH/82260/2006.

STORAGE

Keep the container tightly closed. Store it in a dry, dark and cool place.

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