

Test Report

Fera Science Ltd.
Sand Hutton,
York,
YO41 1LZ
United Kingdom



Test Report No.: FR002212_S21-000581

Date: 28th January 2021

Customer:	APO
Analysis:	Suite of 7 cannabinoids by HPLC-UV
Matrix:	Menthol repair balm
Received:	19 th January 2021
Analysed	25 th to 27 th January 2021

1. BACKGROUND

This report describes the analytical testing of a CBD sample product labelled as menthol repair balm.

The term "CBD" is an acronym for cannabidiol, which is one of several cannabinoids, or chemical compounds, that are found in cannabis and hemp plants.

The sample was analysed for the concentrations of 7 cannabinoids:

- **CBC**, Cannabichromene
- **CBD**, Cannabidiol
- **CBDA**, Cannabidiolic acid
- **CBG**, Cannabigerol
- **CBN**, Cannabinol
- **THC**, Tetrahydrocannabinol
- **THCA**, Tetrahydrocannabinolic acid

2. SAMPLE DESCRIPTION

The sample was received at the laboratory in satisfactory condition and stored dark at ambient temperature prior to analysis.

The sample was in a 30 mL glass pot with a clear plastic screw cap. The customers identification information was displayed on a sticker on the side of the pot.

A unique identifying number was assigned to the samples using the Fera laboratory information management system. The relevant sample details are shown in the table below.

Test Report

Sample information				
Fera reference	Customer reference	Description	Batch/LOT code	Best before
S21-000581	Menthol repair balm	White paste	20328A	N/A

3. SAMPLING AND ANALYSIS

3.1 Cannabinoids

The sample was extracted into solvent and diluted before the cannabinoids were determined using LC-UV.

Accuracy of the method was assessed by analysing in-house reference material with known concentrations of CBD as well as over spiked blank material alongside the samples.


4. RESULTS

4.1 Cannabichromene, cannabidiol, cannabidiolic acid, cannabigerol, cannabinol, tetrahydrocannabinol and tetrahydrocannabinolic acid

Sample identification			Cannabinoid concentrations (%)						
Fera reference	Customer reference	Description	CBC	CBD	CBDA	CBG	CBN	THC	THCA
S21-000581	Menthol repair balm	White paste	ND	3.0	ND	ND	ND	ND	ND

ND = Not detected above the quantifiable limit of <0.002%

Test Report



Michael Dickinson, Senior Scientist



Mark Harrison, Analytical Chemist

Issuing Officer:	Mark Harrison, Analytical chemist	Date:	27/01/2021
Countersigning Manager:	Michael Dickinson, Senior scientist	Date:	28/01/2021

This report has been prepared by Fera Science Limited ("Fera") for the for the sole benefit of AP Organics. This document, and all the information, images and intellectual property rights in it belong to Fera (or its licensees). No part of the text or graphics may be reproduced without the prior written permission of Fera. Except as otherwise advised in writing by Fera, this information is confidential in nature must be treated by the receiver with at least the degree of care that it applies to its own confidential information (and always with at least a reasonable standard of care).

Fera shall not be liable for any claims, losses, demands or damages of any kind whatsoever (whether such claims, losses, demands or damages were foreseeable, known or otherwise and whether direct, indirect or consequential) arising out of or in connection with: (i) any advice given by Fera or its representatives; and/or (ii) the preparation of any technical or scientific reports. Fera makes no representation as to the suitability of using any particular goods in any manufacturing processes or scientific research, nor as to their use in conjunction with any other materials. Fera shall not be liable for any reliance placed on, nor for any recommendations, interpretation, analysis, guidance, suggestions, proposals or endorsements made in connection with, the services and/or the commercial or scientific activities carried out by Fera or its representatives.

© 2021 Fera Science Limited. Confidential and proprietary information.