



BioPharma  
Product Testing

## Certificate of Analysis

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Analytical Report: AAP22337

Eurofins Batch Number JJ21AA1528

Version: 1

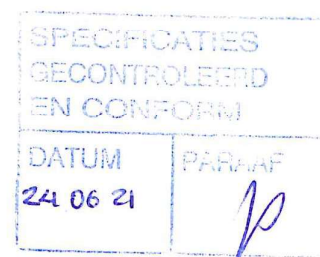
Fagron Services B.V.  
Molenwerf 13  
Uitgeest, 1911 DB  
NL

Client Account Number: A00497292BNI  
Eurofins Quote Number: IOQ6PH19016867

General Method Reference: IM-0015 and Residual Solvents 2.4.24

Eurofins Sample Number JJ21AA1528-1	
Original Received Date:	10-Mar-2021
Description:	Cannabidiol; 521423
Lot Number:	21A29-F03
Containers Submitted:	1 Container

Analysis/Sample	Specification	Result	Unit
<b>Appearance</b>			
JJ21AA1528-1	White to off white or slightly yellow powder	Meets requirements - White powder	----
Method: Current Ph Eur			
Analysis Date 18-May-2021 to 18-May-2021 for JJ21AA1528-1			
<b>Identification</b>			
JJ21AA1528-1	The transmission minima (absorption maxima) in the spectrum obtained with the substance to be examined correspond in position and relative size to those of the reference.	Meets Requirements	----
Method: Current Ph Eur (2.2.24)			
Analysis Date 18-May-2021 to 18-May-2021 for JJ21AA1528-1			
<b>Specific optical rotation</b>			
JJ21AA1528-1	-135.0 to -129.5	-130.2	°
Method: Current Ph Eur (2.2.7)			
Analysis Date 18-May-2021 to 18-May-2021 for JJ21AA1528-1			



Analysis/Sample	Specification	Result	Unit
<b>Assay Cannabidiol &amp; related substances</b>			
JJ21AA1528-1			
Related substances	----	----	----
CBDV	≤ 0.5	0.0	%
CBD-C4	≤ 0.5	0.1	%
Delta 8-THC	----	< 0.005	%
Delta 9-THC	----	< 0.005	%
Sum D8-THC and D9-THC	For information	< 0.005	%
Each unknown impurity	≤ 0.10	0.09	%
Total impurities	≤ 1.0	0.2	%
Assay Cannabidiol	----	----	----
Assay	98.0 - 102.0	98.3	% (m/m)
Method: ATM-010 Assay and related impurities test CBD and THC API			
Analysis Date 09-Jun-2021 to 18-Jun-2021 for JJ21AA1528-1			
<b>Melting point</b>			
JJ21AA1528-1	65 - 69	68	°C
Method: Current Ph Eur (2.2.14)			
Analysis Date 31-May-2021 to 01-Jun-2021 for JJ21AA1528-1			
<b>Water</b>			
JJ21AA1528-1	≤ 1.0	0.0	%
Method: Current Ph Eur (2.5.12)			
Analysis Date 06-May-2021 to 06-May-2021 for JJ21AA1528-1			
<b>Sulfated ash</b>			
JJ21AA1528-1	≤ 0.1	0.0	%
Method: Current Ph Eur (2.4.14)			
Analysis Date 17-May-2021 to 19-May-2021 for JJ21AA1528-1			
<b>Ph Eur Residual Solvents</b>			
JJ21AA1528-1			
Ethanol	≤ 0.5	not detected	%
Heptane	≤ 0.5	<0.1	%
2-Propanol	≤ 0.5	not detected	%
Method: Current Ph Eur (2.4.24)			
Analysis Date 19-May-2021 to 26-May-2021 for JJ21AA1528-1			



Analysis/Sample	Specification	Result	Unit
<b>Ph Eur Identification and Control of Residual Solvents Class 1,2 Procedure i and ii, System A</b>			
JJ21AA1528-1			
Benzene	≤ 2	not detected	ppm
Carbon tetrachloride	≤ 4	not detected	ppm
1,2-Dichloroethane	≤ 5	not detected	ppm
1,1-Dichloroethene	≤ 8	not detected	ppm
1,1,1-Trichloroethane	≤ 1500	not detected	ppm
Acetonitrile	≤ 410	not detected	ppm
Chlorobenzene	≤ 360	not detected	ppm
Chloroform	≤ 60	not detected	ppm
Cumene	≤ 70	not detected	ppm
Cyclohexane	≤ 3880	not detected	ppm
1,2-Dichloroethene	≤ 1870	not detected	ppm
Dichloromethane	≤ 600	not detected	ppm
1,2-Dimethoxyethane	≤ 100	not detected	ppm
N,N-Dimethylacetamide	≤ 1090	not detected	ppm
N,N-Dimethylformamide	≤ 880	not detected	ppm
1,4-Dioxane	≤ 380	not detected	ppm
Hexane	≤ 290	not detected	ppm
Methanol	≤ 3000	not detected	ppm
Methylbutylketone	≤ 50	not detected	ppm
Methylcyclohexane	≤ 1180	not detected	ppm
Methylisobutylketone	≤ 4500	not detected	ppm
Nitromethane	≤ 50	not detected	ppm
Pyridine	≤ 200	not detected	ppm
Tetrahydrofuran	≤ 720	not detected	ppm
Tetralin	≤ 100	not detected	ppm
Toluene	≤ 890	not detected	ppm
1,1,2-Trichloroethene	≤ 80	not detected	ppm
Xylenes and Ethylbenzene	≤ 2170	not detected	ppm
Method: Current EP 2.4.24			
Analysis Date 19-May-2021 to 26-May-2021 for JJ21AA1528-1			

SPECIFICATIES  
GEOCONTROLEERD  
EN CONFORM

DATUM  
24.06.21

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### Sample Compliance Assessment

Samples JJ21AA1528-1 meet the requirement(s) for all listed test(s) where specifications were applied.

### Contracted Company: PROXY Laboratories Chemistry and Biochemistry

Archimedesweg 25, 2333 CM, Leiden, The Netherlands

PROXYcustomer@eurofins.com

*Questions about this report should be directed to your project manager or the general email listed above.*

SPECIFICATIES GECONTROLEERD EN CONFORM	
DATUM 24 06 21	PARAAF 

Reviewed and electronically signed for Quality Assurance Approval by  
Leonard Kaarls, Analytical Review Officer  
for Eurofins PROXY Laboratories B.V., on 23-Jun-2021 16:49:47 UTC+02:00