



BioPharma  
Product Testing

## Certificate of Analysis

Page 1 of 3

Analytical Report: AAM12646

Eurofins Batch Number JJ20AA2814

Version: 2

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

Client Account Number: A00497292BNI  
Eurofins Quote Number: IOQ6PH19016846

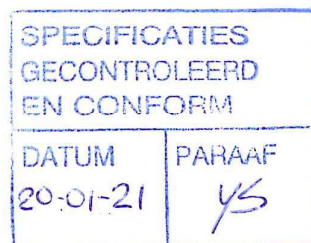
General Method Reference: DAC/NRF 2016/2, DAC/NRF C-052-CBD\_Ext Version 1 (equal to DAC 2020/2) and EP

Eurofins Sample Number JJ20AA2814-1	
Original Received Date:	27-Oct-2020
Description:	Cannabidiol DAC; 521256
Lot Number:	20J19-F01
Containers Submitted:	1 Container
Client Sample ID:	M001

Eurofins Sample Number JJ20AA2814-2	
Original Received Date:	27-Oct-2020
Description:	Cannabidiol DAC; 521256
Lot Number:	20J19-F01
Containers Submitted:	1 Container
Client Sample ID:	M002

Eurofins Sample Number JJ20AA2814-3	
Original Received Date:	27-Oct-2020
Description:	Cannabidiol DAC; 521256
Containers Submitted:	1 Container
Client Sample ID:	Pooled sample

Analysis/Sample	Specification	Result	Unit
Appearance			
JJ20AA2814-1	White to off white or slightly yellow powder	Meets requirements - White powder	----
JJ20AA2814-2	White to off white or slightly yellow powder	Meets requirements - White powder	----
Method: DAC			
Analysis Date 11-Jan-2021 to 11-Jan-2021 for JJ20AA2814-1 through JJ20AA2814-2			



Analysis/Sample	Specification	Result	Unit
<b>Identification A by HPLC</b> = not 20-01-21 YS			
JJ20AA2814-1	Retention time of Cannabidiol in sample solution is the same as in the reference solution	Meets Requirements	----
JJ20AA2814-2	Retention time of Cannabidiol in sample solution is the same as in the reference solution	Meets Requirements	----
Method: Producer DAC/NRF C-052-CBD_Ext version 1			
Analysis Date 06-Jan-2021 to 13-Jan-2021 for JJ20AA2814-1 through JJ20AA2814-2			
<b>Identification by IR (Comp to Ref Std)</b> = IO.A 20-01-21 YS			
JJ20AA2814-1	Compared to reference	Meets Requirements	----
JJ20AA2814-2	Compared to reference	Meets Requirements	----
Method: DAC 2.2.24			
Analysis Date 11-Nov-2020 to 11-Nov-2020 for JJ20AA2814-1 through JJ20AA2814-2			
<b>Optical rotation</b>			
JJ20AA2814-3	-135.0 to -129.5	-129.6	°
Method: DAC 2.2.7			
Analysis Date 09-Dec-2020 to 09-Dec-2020 for JJ20AA2814-3			
<b>Related substances</b>			
JJ20AA2814-3			
Related substances	----	----	----
CBDV	≤ 0.5	< 0.05	%
CBD-C4	≤ 0.5	0.1	%
Delta 8-THC (imp C)	≤ 0.10	Not detected	%
Delta 9-THC (imp B)	≤ 0.10	Not detected	%
Sum D8-THC and D9-THC		Not detected	%
Each unknown impurity	≤ 0.10	< 0.05	%
Total impurities	≤ 0.5	0.1	%
Cannabinol (imp A)	≤ 0.10	< 0.05	%
Method: Producer DAC/NRF C-052-CBD_Ext version 1			
Analysis Date 06-Jan-2021 to 08-Jan-2021 for JJ20AA2814-3			
<b>Melting point</b>			
JJ20AA2814-3	65 - 69	68	°C
Method: DAC 2.2.60			
Analysis Date 11-Nov-2020 to 12-Nov-2020 for JJ20AA2814-3			

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Analysis/Sample	Specification	Result	Unit
<b>Water</b>			
JJ20AA2814-3	< 0.5%	< 0.1%	%
Method: Current Ph Eur (2.5.12)			
Analysis Date 09-Dec-2020 to 09-Dec-2020 for JJ20AA2814-3			
<b>Sulfated ash</b>			
JJ20AA2814-3	≤ 0.1	0.0	%
Method: DAC 2.4.14			
Analysis Date 09-Nov-2020 to 10-Nov-2020 for JJ20AA2814-3			
<b>Assay Cannabidiol</b>			
JJ20AA2814-3	98.0 - 102.0	101.6	% (m/m)
Method: Producer DAC/NRF C-052-CBD_Ext version 1			
Analysis Date 06-Jan-2021 to 13-Jan-2021 for JJ20AA2814-3			
<b>Ph Eur Identification and Control of Residual Solvents Class 1,2 Procedure iii, System A</b>			
JJ20AA2814-3			
n-Heptane	NMT 5000	838	ppm
Acetone	NMT 5000	61	ppm
Dichloromethane	NMT 600	Not detected	ppm
Method: Current Ph Eur (2.4.24, System A)(2.2.28)(5.4)			
Analysis Date 16-Nov-2020 to 24-Nov-2020 for JJ20AA2814-3			
<b>Sample Compliance Assessment</b>			
Samples JJ20AA2814-1 through JJ20AA2814-3 meet the requirement(s) for all listed test(s) where specifications were applied.			

**Contracted Company: PROXY Laboratories Chemistry and Biochemistry**

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PROXYcustomer@eurofins.com

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



Reviewed and electronically signed for Quality Assurance Approval by  
Irina Pirog, Analytical Review Officer  
for Eurofins PROXY Laboratories B.V., on 20-Jan-2021 08:02:51 UTC+01:00