



BioPharma
Product Testing

Certificate of Analysis

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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

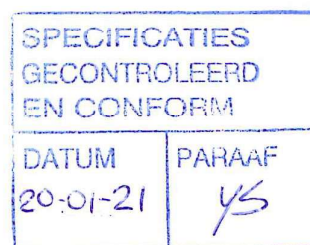
General Method Reference: DAC/NRF 2016/2, DAC/NRF C-052-CBD_Ext Version 1 (equal to DAC 2020/2) and EP

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
Identification A by HPLC = 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			
Identification by IR (Comp to Ref Std) = 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			
Optical rotation			
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			
Related substances			
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			
Melting point			
JJ20AA2814-3	65 - 69	68	°C
Method: DAC 2.2.60 Analysis Date 11-Nov-2020 to 12-Nov-2020 for JJ20AA2814-3			

SPECIFICATIES
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Analysis/Sample	Specification	Result	Unit
Water			
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			
Sulfated ash			
JJ20AA2814-3	≤ 0.1	0.0	%
Method: DAC 2.4.14			
Analysis Date 09-Nov-2020 to 10-Nov-2020 for JJ20AA2814-3			
Assay Cannabidiol			
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			
Ph Eur Identification and Control of Residual Solvents Class 1,2 Procedure iii, System A			
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			
Sample Compliance Assessment			
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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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