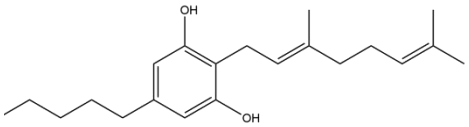
Certificate of Analysis

Cannabigerol（CBG）

Product No.:	BA87
Lot No.:	BA87-20241101
Description of CRM:	Cannabigerol
Chemical formula:	$C_{21}H_{32}O_2$
CAS No.:	25654-31-3
Mfg. Date:	Nov.01, 2024
Retest Date:	November 2025
Storage:	Store unopened in cold (2 °C to -8 °C).



Quantity:	1Kg
Appearance:	Off white solid
Packaging:	Plastic bottle
Details on starting Materials:	Each raw material utilized has been identified and thoroughly characterized through. The use of multiple analytical techniques and is assigned a Mass Balance Purity Factor. Spectral data is provided on subsequent pages of this COA.
Certificate of Origin:	Blazer Corporation certifies no material of animal origin (BSE/TSE) was used in the preparation of this product .
Country of Origin:	China

Quality Assurance Manager

Nov 01,2024

Issue Date

Address:1st Floor, No. 477, Huancheng West Road, Nanqiao Town, Fengxian District, Shanghai,China
Email: sales@qxscientific.com
Website: www.qxchemicals.com

Analyte Certification - Mass Balance Purity Factor

Each analyte is thoroughly identified and characterized using an orthogonal approach. A mass balance purity factor is assigned incorporating chromatographic purity and residual impurities. The mass balance purity factor is utilized to calculate the weighing adjustment necessary to ensure accuracy of the solution standard concentration.

Material Name:	Cannabigerol	**Chemical Formula:**	$C_{21}H_{32}O_2$
		CAS Number:	25654-31-3
Material Lot:	BA87-20241101	**Molecular Weight:**	316.48

Material Characterization Summary

Analytical Test	Stanard	Results
Chromatographic Purity by HPLC/UV Analysis	≥95%	99.12%
Total THC (Δ^9-THC and THCA-A) on a Dry Weight Basis	ND	ND
Identity by LC/MS Analysis	Consistent with Structure	Consistent with Structure
Identity by ^{1}H-NMR Analysis	Consistent with Structure	Consistent with Structure
Residual Water Analysis by Karl Fischer Coulometry	1%	ND
Mass Balance Purity Factor		99.12%

- The chromatographic purity is calculated as the average of two independently performed analyses utilizing two different methods. Acceptance criteria requires the purity values to be within 0.5% of each other.
- The chromatographic purity value is used to calculate the Mass Balance Purity Factor.
- Mass Balance Purity Factor = [(100 - wt% residual solvent - wt% residual water - wt% residual inorganics)xChromatographic Purity/100].
- Mass Balance Purity Factor does not include adjustment for chiral and/or isotopic purity.

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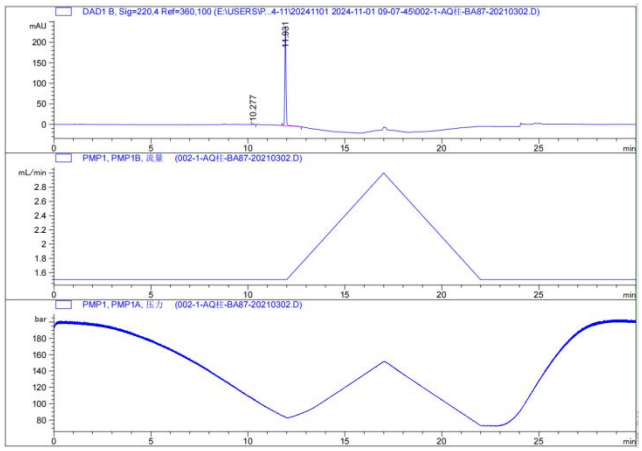
Spectral and Physical Date

HPLC/UV



Column: Ascentis Express C18, 2.7 µm, 3.0 x 100 mm

Mobile Phase: A: Acetonitrile
B: 0. 1% Phosphoric acid in Water

Gradient:

Time (min)	% A	% B
0.0	40	60
5.0	70	30
10.0	90	10
15.0	90	10
25.0	95	5
25.1	40	60
27.0	40	60

Flow Rate: 0.8 mL/min

Wavelength: 220 nm

Sample Name BA87-20241101

Acquired: Nov.01, 2024

Peak #	Ret Time	Area %
1	10.277	0.8782
2	11.931	99.1218

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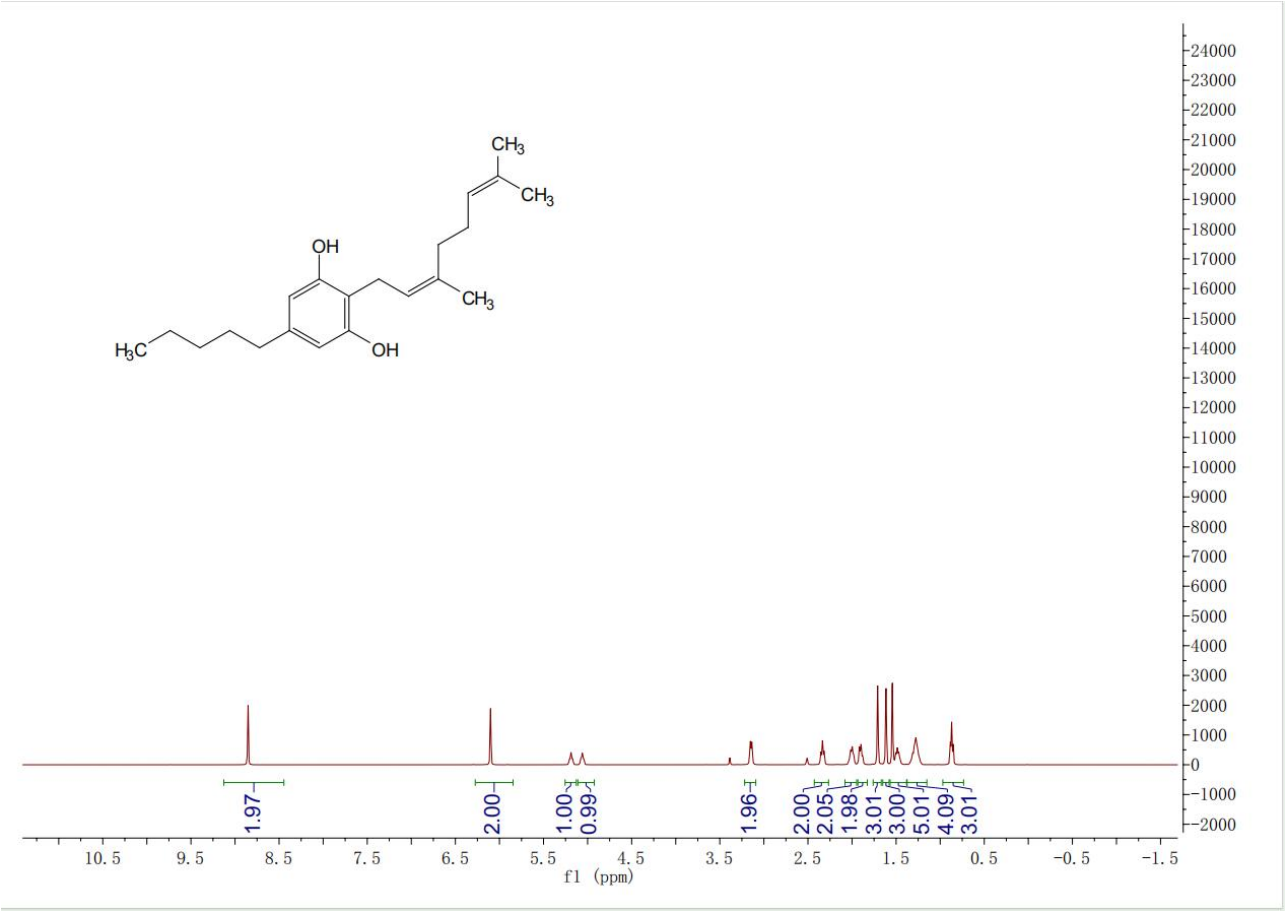
^{1}H NMR

Instrument: JEOL ECZ400S

Solvent: Choloform- D



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