

CERTIFICATE OF ANALYSIS

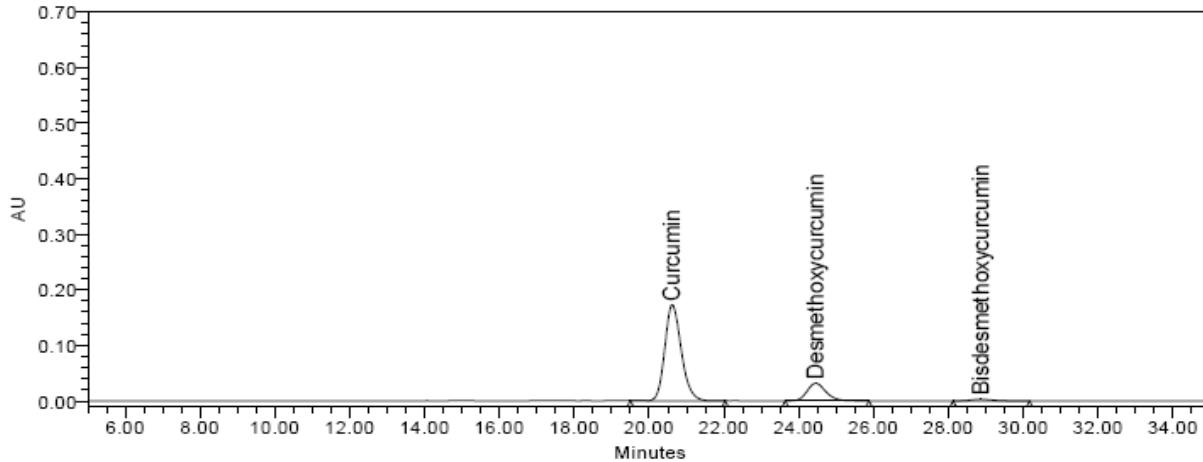


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Report Issued To: Verdure Sciences
17150 Metro Park Court
Noblesville IN 46060-4051
USA

Sample Name: LONGVIDA® LVB176EFPH
Description: Powdered extract; Bright orange granulated powder
Lot #: LCL3EG2213D10
AL #: 22118MFO_1
Analysis ID: 175909
Received: 04/28/22

Determination of Curcuminoids Content by HPLC



Ret. Time (min)	Compound Name	Prep 1 (%)	Prep 2 (%)	Average (%)	Average Dried Basis (%)	Specification	Result
20.4	Curcumin	20.705	20.344	20.524	20.874	NLT 20.00%	Pass
24.2	Desmethoxycurcumin	3.801	3.827	3.814	3.879	N/A	N/A
28.5	Bisdesmethoxycurcumin	0.343	0.336	0.339	0.345	N/A	N/A
Total Curcuminoids		24.848	24.506	24.677	25.098	NLT 23.00%	Pass

Chromatographic Conditions:

Method: USP 43 - Curcuminoids
Column: AP165 Gemini 5µ C18 110A (250 x 4.6 mm)
Temperature: 25°C
Flow Rate: 1 mL/min
Injection Volume: 20 µL
UV Detection: 420 nm
Mobile Phase: Tetrahydrofuran:1 mg/mL Citric Acid in Water (4:6)
HPLC Instrument: Alliance_4

Sample Preparation:

Weighed approximately 75 mg of test sample into a 50 mL volumetric flask and added 40 mL acetone. Vortexed for 30 seconds and sonicated for 30 minutes at room temperature. Let cool and filled to volume with acetone. Centrifuged for 10 mins and diluted 1:10 in mobile phase. Filtered through 0.45µm PTFE filter into HPLC vial for analysis.

Report Summary:

Conclusion: This " LONGVIDA® LVB176EFPH " test sample contains an average of 20.87% curcumin and 25.10% total curcuminoids as curcumin, desmethoxycurcumin, and bisdesmethoxycurcumin on the dried basis.
OOS Reference: N/A
Loss on Drying: 1.68%
Empower Reference: 12422 Curcuminoids

Analysis Date : 05/06/22

Analyzed By: J Lopez

Authorized By: Celine Deneuve,
Analytical Chemistry Supervisor