CERTIFICATE OF ANALYSIS

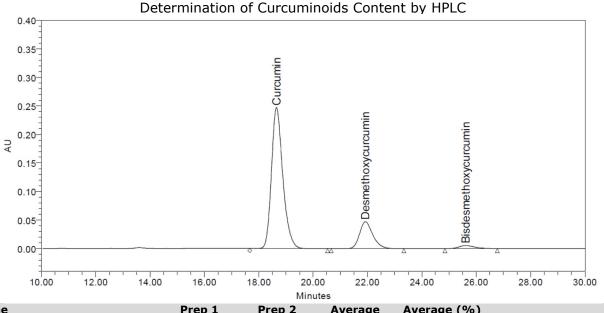


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Report Issued To:

Verdure Sciences 17150 Metro Park Court Noblesville IN 46060 USA

Sample Name: LONGVIDA® [LVB176EFPH] Description: Powdered extract; Bright orange granulated powder Lot #: LCL3EG2039M14(PS) AL #: 21015X0F_1 Analysis ID: 148512 Received: 01/15/21



Ret. Time		Prep 1	Prep 2	Average	Average (%)		
(min)	Compound Name	(%) As Is	(%) As Is	(%) As Is	Dried Basis	Specification	Result
18.0	Curcumin	21.162	21.269	21.216	21.448	N/A	N/A
21.0	Desmethoxycurcumin	4.059	4.082	4.070	4.115	N/A	N/A
24.3	Bisdesmethoxycurcumin	0.463	0.466	0.465	0.470	N/A	N/A
	Total	25.684	25.817	25.751	26.033	NLT 23.00%	Pass

Chromatographic Conditions:

Method:	USP 42 - 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_3				

Sample Preparation:

Weighed approximately 25 mg into a 50 mL volumetric flask. Added 30 mL of acetone and sonicated for 30 minutes at room temperature. Let cool and filled to volume with acetone. Centrifuged 10 minutes. Filtered through 0.45 μ m PTFE filter, discarding the first few mL of filtrate. Diluted 0.5:5 in THF:1 mg/ mL Citric acid in water (4:6) into HPLC vial for analysis

Report Summary: Conclusion: This "LONGVIDA® [LVB176EFPH]" test sample contains an average of 26.03% total curcuminoids as curcumin, desmethoxycurcumin, and bisdesmethoxycurcumin per serving on the dried basis. OOS Reference: N/A Loss on Drying: 1.08% Empower Reference: 01921 Curcuminoids

Analysis Date : 01/21/21

Analyzed By: A Pham

Authorized By: Celine Deneuve, Analytical Chemistry Supervisor

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