CERTIFICATE OF ANALYSIS



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Report Issued To: Dietary Supplement Company

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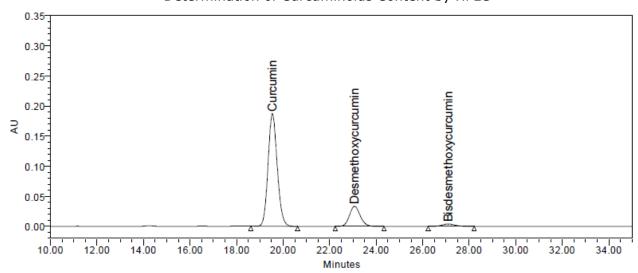
Sample Name: Turmeric Powdered Extract

Description: Powdered extract; Fine orange powder

Lot #: 1234567 AL #: 21145RRR 1

Analysis ID: 156321 **Received:** 07/25/21

Determination of Curcuminoids Content by HPLC



Ret. Time		Prep 1	Prep 2	Average	Average (%)		
(min)	Compound Name	(%) As Is	(%) As Is	(%) As Is	Dried Basis	Specification	Result
19.5	Curcumin	20.517	22.281	21.399	21.740	N/A	N/A
23.0	Desmethoxycurcumin	3.755	4.074	3.914	3.977	N/A	N/A
27.0	Bisdesmethoxycurcumin	0.386	0.420	0.403	0.409	N/A	N/A
	Total	24.658	26.774	25.716	26.126	NLT 23.00%	Pass

Chromatographic Conditions:

Method: USP - Curcuminoids

Column: AP161 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

Example Report

Sample Preparation:

Weighed approximately 75 mg into a 50 mL volumetric flask. Added 40 mL of acetone and sonicated for 30 minutes at room temperature. Let cool and filled to volume with acetone. Centrifuged 10 minutes. Diluted 1:10 in THF:1 mg/ mL Citric acid in water (4:6). Filtered through 0.45 µm PTFE filter into HPLC vial for analysis, discarding the first few mL of filtrate.

Report Summary:

Conclusion: This "Turmeric Powdered Extract" test sample contains an average of 26.03% curcuminoids as

curcumin, desmethoxycurcumin, and bisdesmethoxycurcumin on the dried basis.

OOS Reference: N/A

Loss on Drying: 1.57%

Notebook Reference: 12345 Curcuminoids

Analysis Date: 08/01/21 Analyzed By: M Edwards Authorized By: Celine Deneuve,
Analytical Chemistry Supervisor