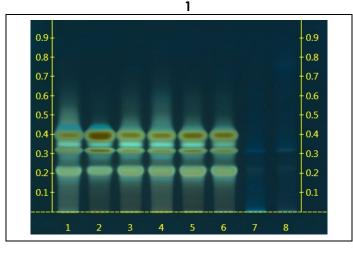
Certificate Issued To: Dietary Supplement Company 1234 Main Street Los Angeles, CA 90000 USA

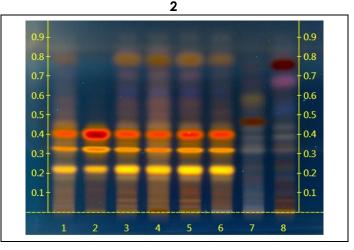


Work performed at: **Alkemist Labs** 12661 Hoover Street Garden Grove, CA 92841 714-754-HERB (4372) 714-668-9972 (FAX) Sales@Alkemist.com www.Alkemist.com

Report Date: 08/01/21

<u>Certificate of Analysis:</u> Turmeric Powdered Extract (1234567) High Performance Thin-Layer Chromatography with Photo-Documentation





Company Name: Title:	Dietary Supplement Company Turmeric	
Plant Part:	rhizome	Even man la
Sample Received: Sample Packaging:	07/25/21 Clear Whirl-Pak	Example
Form of Botanical:	crude plant powder	Report
Appearance:	Orange granulated powder	Report
Lot Number:	(1234567) →Lane 3(2µl)	
Sample:	Turmeric Powdered Extract	
Latin Name:	Curcuma longa L. [Zingiberaceae]	
Reference Sample:	Lane 1(2µl) (SF26610SWH), Lane 2(2µl) (SF04914NC3) Curcuma longa (root); Lane 7(2µl) (KTQ15915SWH1) Curcuma zedoaria (rhizome); Lane 8(2µl) (KTU04214SWH2) Curcuma phaeocaulis (root); held at Alkemist Labs, Garden Grove, CA.	
Analyst:	A. Davis, J. Kim, N. Afendikova, M. Edwards, S. Rodriguez, S. Kabbaj, M. Lababidi, N. Hoang, K. Tran 125445	
Sample Preparation:	0.3g+3mL Methanol, sonicate/heat at 50°C for 30 min.	
Stationary Phase:	Silica gel 60, HPTLC plates	
Mobile Phase:	chloroform: ethanol: Acetic acid [9.5/0.5/0.1]	
Detection:	(1) UV 366 nm	
	(2) Vanillin/Sulfuric, 110°C, 2min, 366nm (Reich, E., 2007)	
Reference Source:	TS1-3: BTM-715-0009, TS4: BTM-715-0153	
	IDT-SOP-72-01	

<u>Comments & Conclusions</u>: Lane 3 is the test sample Turmeric Powdered Extract (1234567). Lanes 1, 2, 7, 8, are the reference samples used for comparison. This test sample, Turmeric Powdered Extract (1234567) is consistent with the chromatographic profile of the reference samples of *Curcuma longa*, used above. This test sample Turmeric Powdered Extract (1234567) has characteristics of *Curcuma longa* rhizome.

NOTE: The above conclusion may be a function of the natural variance found in botanicals &/or the extraction process used to create specific extracts. The growing and drying conditions, age, seasonal variations, geographic location, extraction solvents, etc. all play a role in the phytochemical fingerprint of botanicals as well as their extracts; hence, chromatographic variations are expected.

Examined, Reviewed & Authorized by: Khanh N Tran, HPTLC, R&D Supervisor, Alkemist Labs

ISO/IEC 17025



Note: Any unidentified lanes in the above chromatograms are confidential and may represent internal studies or other test samples not related to 001616ST. This report applies to the sample investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. This report is for the exclusive use of the party who requested the report and not for public dissemination or use by third parties, including for promotional purposes, without the prior written permission of Alkemist Labs, Inc. This report provides technical results for a specific sample and the report shall not be altered, modified, supplemented or abstracted in any manner. Any violation of these conditions renders the report and its results void. © 2019Alkemist Labs, Inc. All Rights Reserved