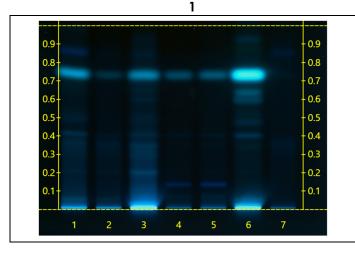
Certificate Issued To: Lost Empire Herbs 8301 NW 101st Ter. Kansas City, MO 64153-2321 Untied States

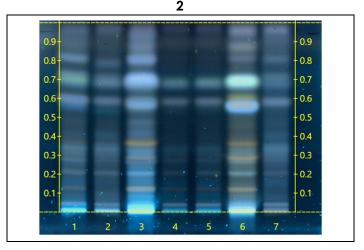


Work performed at: Alkemist Labs 12661 Hoover Street Garden Grove, CA 92841 714-754-HERB (4372) 714-668-9972 (FAX) Sales@Alkemist.com www.Alkemist.com

Report Date: 02/24/23

<u>Certificate of Analysis:</u> Cordyceps (BACORD04JAN23) High Performance Thin-Layer Chromatography with Photo-Documentation





Company Name: Title:	Lost Empire Herbs Cordyceps
Plant Part:	entire en ren ren
Sample Received:	02/21/23
Sample Packaging: Form of Botanical:	Clear Reclosable Plastic Bag powdered extract
Appearance:	Ultrafine beige powder
Lot Number:	(BACORD04JAN23) →Lanes 4(8µl), 5(12µl)
Sample:	23052NHO 1
Latin Name:	Paecilomyces hepiali [Clavicipitaceae]
Reference Sample:	Lane 1(8µl) (UH06914BPC1), Lane 2(8µl) (UH10113FPM1), Lane 3(8µl) (UH21912CSB1) Paecilomyces hepiali (mycelia); Lane 6(8µl) (22130LEC) Cordyceps militaris (fruiting body); Lane 7(8µl) (GT12113NAMX1) Oryza sativa (grain); held at Alkemist Labs, Garden Grove, CA.
Analyst:	A.Foults, D.Robinson, J.Mares, K.Chopra, K.Montoya, K.Tran, L.Tang, M.Fox, N.Alvarez, N.Hoang, N.Afendikova, N.Waldstreicher, P.Hoang, S.Kabbaj, S.Sudberg 194618
Sample Preparation:	0.3g+3mL Methanol, sonicate/heat at 50°C for 30 min.
Stationary Phase:	Silica gel 60, HPTLC plates
Mobile Phase:	toluene: ethyl formate: Formic Acid [5/5/0.2]
Detection:	(1) UV 366 nm
	(2) 10% Sulfuric, 100°C, 2min, 366nm (Reich, E., 2007)
Reference Source:	Method Developed by Alkemist Labs IDT-SOP-72-01

<u>Comments & Conclusions:</u> Lanes 4, 5 are the test sample Cordyceps (BACORD04JAN23) Lanes 1, 2, 3, 6, 7 are the reference samples used for comparison. This test sample, Cordyceps (BACORD04JAN23), has characteristics of the chromatographic profile of Paecilomyces hepiali reference samples used above. This test sample Cordyceps (BACORD04JAN23) indicates the presence of Paecilomyces hepiali mycelia.

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 BACORD04JAN23. 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. © 2023Alkemist Labs, Inc. All Rights Reserved