

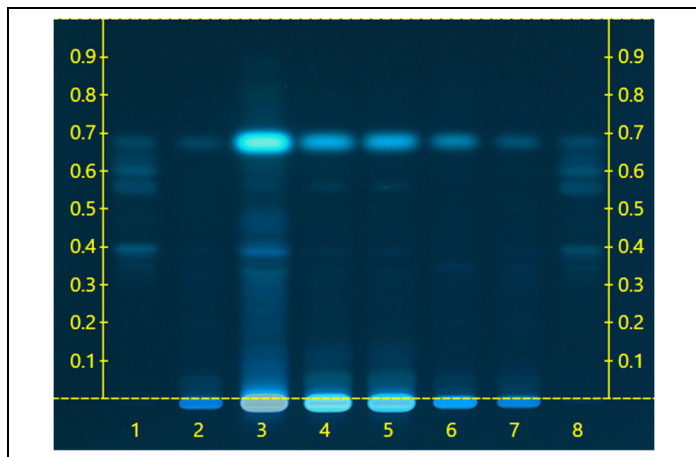
Certificate Issued To:  
**Lost Empire Herbs**  
8301 NW 101st Ter.  
Kansas City, MO 64153-2321  
United States



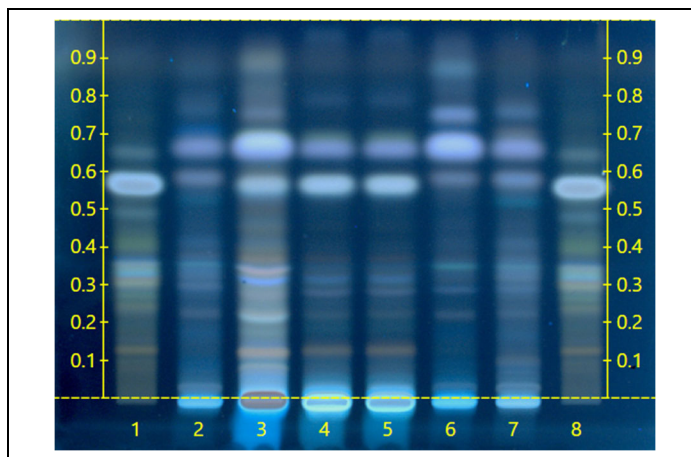
Work performed at:  
**Alkemist Labs**  
12661 Hoover Street  
Garden Grove, CA 92841  
714-754-HERB (4372)  
714-668-9972 (FAX)  
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**Certificate of Analysis: Cordyceps (BNCORD24OCT22)**  
High Performance Thin-Layer Chromatography with Photo-Documentation

1



2



Company Name: Lost Empire Herbs  
Title: Cordyceps  
Plant Part: fruiting body  
Sample Received: 11/21/22  
Sample Packaging: Clear Reclosable Plastic Bag  
Form of Botanical: powdered extract  
Appearance: brown powder  
Lot Number: (BNCORD24OCT22) → Lanes 4(7µl), 5(7µl)  
Sample: 22325NHP\_1  
Latin Name: *Cordyceps militaris* (L.) Link [Clavicipitaceae]  
Reference Sample: Lane 2(7µl) (ASL15315FPM1) *Cordyceps militaris* (mycelia); Lane 3(7µl) (19077CXY) *Cordyceps militaris* (fruiting body); Lane 6(7µl) (UH30304HAI) *Paecilomyces hepiali* (fungi); Lane 7(7µl) (UH10113FPM1) *Paecilomyces hepiali* (mycelia); 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 189483  
Sample Preparation: 0.3g+3mL 70% grain Ethanol, 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 Standard: Lanes 1(3µl) and 8(3µl) Ergosterol (4S4BA-MC, VWR), Methanol (22E0661031, VWR)  
Reference Source: BTM-715-0203  
IDT-SOP-72-01

**Comments & Conclusions:** Lanes 4, 5 are the test sample Cordyceps (BNCORD24OCT22). Lanes 2, 3, 6, 7, are the reference samples used for comparison. This test sample, Cordyceps (BNCORD24OCT22) is consistent with the chromatographic profile of the reference samples of *Cordyceps militaris*, used above. **This test sample Cordyceps (BNCORD24OCT22) has characteristics of *Cordyceps militaris* fruiting body.**

**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

Report Date: 11/28/22

ISO/IEC 17025



CERTIFICATE #3851.01

Note: Any unidentified lanes in the above chromatograms are confidential and may represent internal studies or other test samples not related to BNCORD24OCT22. 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. © 2022 Alkemist Labs, Inc. All Rights Reserved