

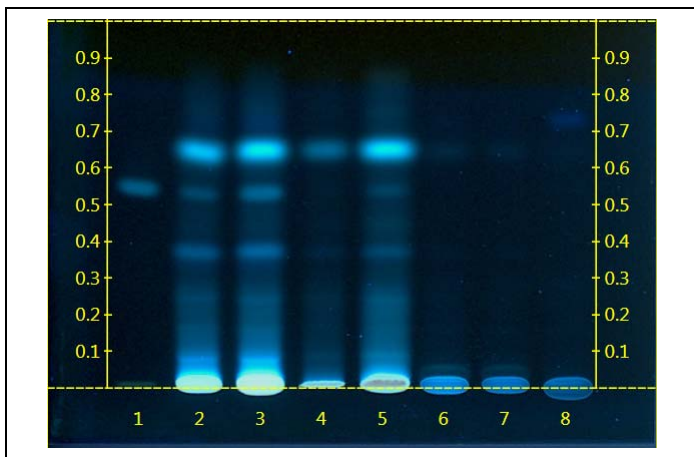
Certificate Issued To:  
Lost Empire Herbs  
2825 S. Rodeo Gulch Rd #12  
Soquel, CA 95073



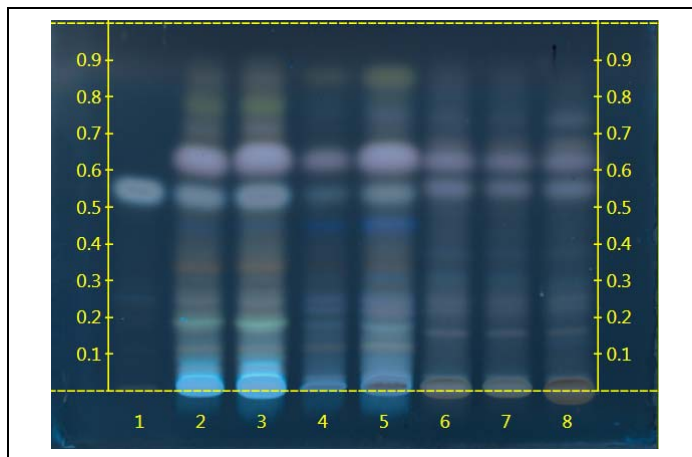
Work performed at:  
**Alkemist Labs**  
1260 Logan Ave B2  
Costa Mesa, CA 92626  
714-754-HERB (4372)  
714-668-9972 (FAX)  
Sales@Alkemist.com  
www.Alkemist.com

**Certificate of Analysis: Lion's Mane (LION30092017)**  
High Performance Thin-Layer Chromatography with Photo-Documentation

1



2



Company Name: Lost Empire Herbs  
Title: Lion's Mane  
Plant Part: fruiting body  
Sample Received: 09/26/17  
Sample Packaging: Clear Reclosable Plastic Bag  
Form of Botanical: powdered extract  
Appearance: brown fine powder  
Lot Number: (LION30092017) → Lanes 4(1µl), 5(5µl)  
Sample: ABI26917SUP1\_1  
Latin Name: *Hericium erinaceus*  
Reference Sample: Lane 2(8µl) (ABI12113NAMX1), Lane 3(12µl) (ABI12113NAMX1) *Hericium erinaceus* (fruiting body); Lane 6(12µl) (ABI19317FPM1), Lane 7(8µl) (ABI19317FPM1) *Hericium erinaceus* (mycelia); Lane 8(8µl) (GT12113NAMX1) *Oryza sativa* (grain); held at Alkemist Labs, Costa Mesa, CA.  
Analyst: A. Davis, N. Hoang, P. Fast, N. Afendikova, K. Tran, S. Kabbaj, E. Garcia, M. Lababidi, J. Nguyen 92353  
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% Ethanolic Sulfuric acid Reagent, heat at 100°C for 2min, UV 366 nm  
Reference Standard: Lane 1(3µl) Ergosterol (BCBN4049V, SigAl), Methanol (042317C, BDH)  
Reference Source: BTM-715-0028 R2  
IDT-SOP-72-01

**Comments & Conclusions:** Lanes 4, 5 are the test sample Lion's Mane (LION30092017). Lanes 2, 3, 6, 7, 8, are the reference samples used for comparison. This test sample, Lion's Mane (LION30092017) is consistent with the chromatographic profile of the reference samples of *Hericium erinaceus*, used above. **This test sample Lion's Mane (LION30092017) has characteristics of *Hericium erinaceus* 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: Sandy S Sudberg, M.T., ASCP Senior Data Analyst, Alkemist Labs

Report Date: 10/03/17



Note: Any unidentified lanes in the above chromatograms are confidential and may represent internal studies or other test samples not related to LION30092017. 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. © 2017 Alkemist Labs, Inc. All Rights Reserved