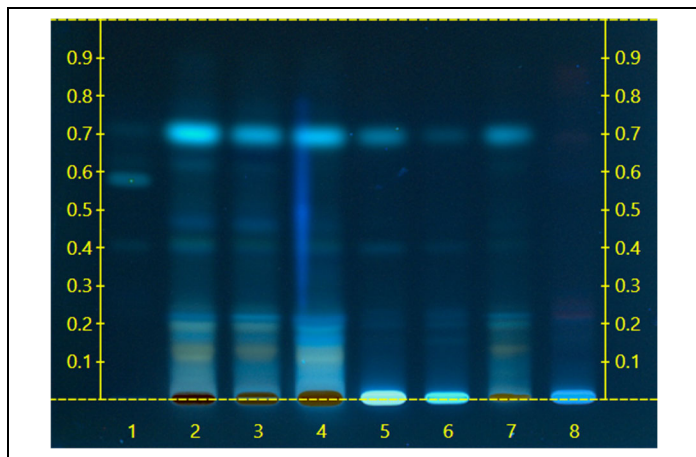


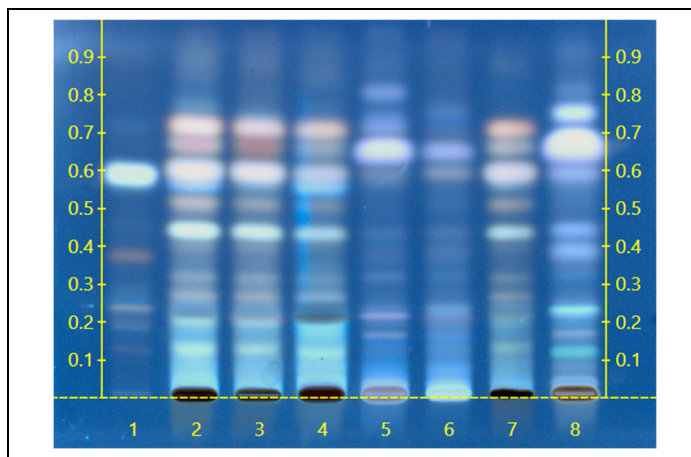


Certificate of Analysis: Chaga (BCHAG19AUG22)
High Performance Thin-Layer Chromatography with Photo-Documentation

1



2



Company Name: Lost Empire Herbs
Title: Chaga
Plant Part: fruiting body
Sample Received: 09/06/22
Sample Packaging: Clear Reclosable Plastic Bag
Form of Botanical: powdered extract
Appearance: dark brown powder
Lot Number: (BCHAG19AUG22) → Lane 4(8µl)
Sample: 22249HDW_1
Latin Name: *Inonotus obliquus* (Pers.: Fr.) Pilat [Hymenochaetaceae]
Reference Sample: Lane 2(8µl) (ACK22514YE1) *Inonotus obliquus* (fruiting body); Lane 3(8µl) (ACK25606KKO) *Inonotus obliquus* (sclerotium); Lane 6(8µl) (ACK36309FPM) *Inonotus obliquus* (mycelia); Lane 7(8µl) (19212YDM) *Inonotus obliquus* (entire); Lane 8(8µl) (ES18709CRB2) *Avena sativa* (grain); held at Alkemist Labs, Garden Grove, CA.
Analyst: J.Mares, K.Chopra, K.Montoya, K.Tran, M.Levine, N.Carson, N.Hoang, N.Afendikova, P.Hoang, S. Kabbaj, S.Sudberg, T.Louis, D.Robinson 184255
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: Lane 1 (3µl) Ergosterol (4S4BA-MC, VWR)
Reference Source: BTM-715-0206
IDT-SOP-72-01

Comments & Conclusions: Lane 4 is the test sample Chaga (BCHAG19AUG22). Lanes 2, 3, 6, 7, 8, are the reference samples used for comparison. This test sample, Chaga (BCHAG19AUG22) is consistent with the chromatographic profile of the reference samples of *Inonotus obliquus*, used above. **This test sample Chaga (BCHAG19AUG22) has characteristics of *Inonotus obliquus* 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: 09/09/22

ISO/IEC 17025



ACCREDITED
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 BCHAG19AUG22. 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. © 2022Alkemist Labs, Inc. All Rights Reserved