

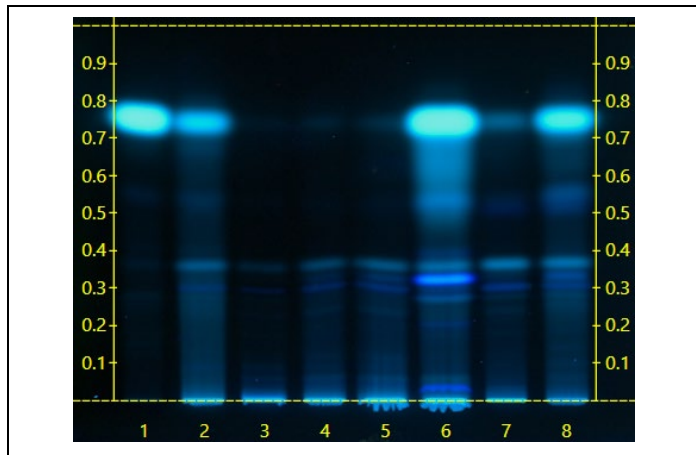
Certificate Issued To:
Lost Empire Herbs
195 Aviation Way Suite 102
Watsonville, LA 95076
USA



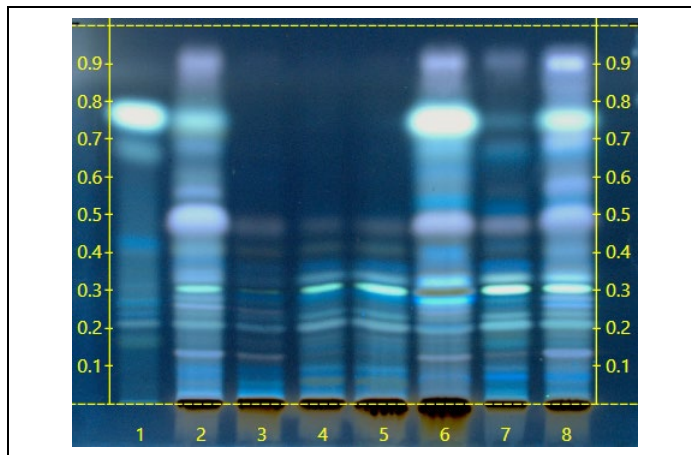
Work performed at:
Alkemist Labs
12661 Hoover Street
Garden Grove, CA 92841
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714-668-9972 (FAX)
Sales@Alkemist.com
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Certificate of Analysis: Dong Quai (DQ150920)
High Performance Thin-Layer Chromatography with Photo-Documentation

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2



Company Name: Lost Empire Herbs
Title: Dong Quai
Plant Part: root
Sample Received: 09/22/20
Sample Packaging: Clear Reclosable Plastic Bag
Form of Botanical: powdered extract
Appearance: Light brown powder
Lot Number: (DQ150920) → Lanes 4(4µl), 5(8µl)
Sample: 20266XOK_1
Latin Name: *Angelica sinensis* (Oliv.) Diels [Apiaceae]
Reference Sample: Lane 2(8µl) (SA06705AHP2), Lane 3(8µl) (SA11109SWH3) *Angelica sinensis* (root); Lane 6(8µl) (19224TNV) *Levisticum officinale* (root); Lane 7(8µl) (DAP25814KAN1) *Ligusticum striatum* (rhizome); Lane 8(8µl) (DAO11109SWH) *Ligusticum sinense* Chuanxiong (rhizome); held at Alkemist Labs, Garden Grove, CA.
Analyst: A. Davis, N. Afendikova, M. Edwards, S. Kabbaj, N. Hoang, K. Tran, J. Lopez, J. Mares 143263
Sample Preparation: 0.3g+3mL Methanol, sonicate/heat at 50°C for 30 min.
Stationary Phase: Silica gel 60, HPTLC plates
Mobile Phase: Chloroform: Methanol: Formic Acid [10/0.5/0.5]
Detection: (1) UV 366 nm
(2) 10% Sulfuric, 100°C, 2min, 366nm (Reich, E., 2007)
Reference Standard: Lane 1(3µl) Ligustilide (05, XSYN)
Reference Source: Method Developed by Alkemist Labs
IDT-SOP-72-01

Comments & Conclusions: Lanes 4, 5 are the test sample Dong Quai (DQ150920) Lanes 2, 3, 6, 7, 8 are the reference samples used for comparison. This test sample, Dong Quai (DQ150920), is consistent with the chromatographic profile of the reference samples of *Angelica sinensis* used above. **This test sample Dong Quai (DQ150920) has characteristics of a customized extract derived from *Angelica sinensis* root.**

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: 09/30/20

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 DQ150920. 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. © 2020 Alkemist Labs, Inc. All Rights Reserved