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



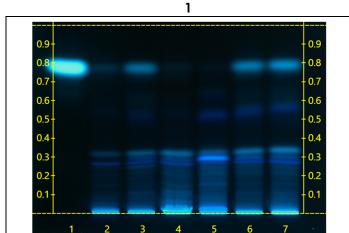
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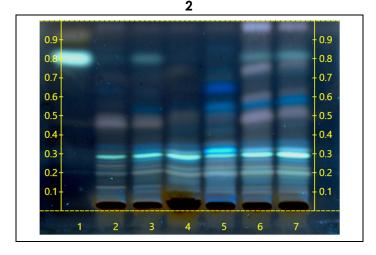
Alkemist Labs

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

Certificate of Analysis: Dong Quai (BDQ19DEC22)

High Performance Thin-Layer Chromatography with Photo-Documentation





Lost Empire Herbs Company Name: Title: Dong Quai Plant Part:

Sample Received: 01/06/23

Sample Packaging: Clear Reclosable Plastic Bag

Form of Botanical: powdered extract Appearance: tan fine powder

Lot Number: (BDQ19DEC22) → Lane 4(16µI)

Sample: 23006HOA 1

Latin Name: Angelica sinensis (Oliv.) Diels [Apiaceae]

Reference Sample: Lane 2(12µI) (SA11109SWH3), Lane 3(12µI) (SA06705AHP3) Angelica sinensis (root); Lane 5(8µI) (RT15516AHP1)

Levisticum officinale (root); Lane 6(8µI) (DAP30612SWH1) Ligusticum striatum (rhizome); Lane 7(6µI) (DAO11109SWH)

Ligusticum sinense Chuanxiong (rhizome); 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 192144 0.3g+3mL Methanol, sonicate/heat at 50°C for 30 min.

Sample Preparation: Stationary Phase: Silica gel 60, HPTLC plates

Mobile Phase: Chloroform: Methanol: Formic Acid [10/0.5/0.5] (1) 10% Sulfuric, 100°C, 2min, Vis (Reich, E., 2007) Detection: (2) 10% Sulfuric, 100°C, 2min, 366nm (Reich, E., 2007)

Reference Standard: Lane 1(1µI) Ligustilide (05, XSYN) Method Developed by Alkemist Labs Reference Source:

IDT-SOP-72-01

Comments & Conclusions: Lane 4 is the test sample Dong Quai (BDQ19DEC22) Lanes 2, 3, 5, 6, 7 are the reference samples used for comparison. This test sample, Dong Quai (BDQ19DEC22), is consistent with the chromatographic profile of the reference samples of Angelica sp. used above. This test sample Dong Quai (BDQ19DEC22) indicates the presence of a customized extract derived from Angelica sp. 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: Syhem W Kabbaj, HPTLC Production Supervisor, Alkemist Labs

ISO/IEC 17025 ACCREDITED CERTIFICATE #3851.01

Report Date: 01/17/23

Note: Any unidentified lanes in the above chromatograms are confidential and may represent internal studies or other test samples not related to BDQ19DEC22. 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