Certificate Issued To: **Lost Empire Herbs** 195 Aviation Way Suite 102 Watsonville, LA 95076-2059 USA

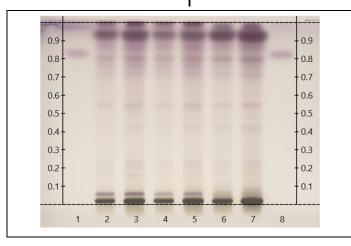


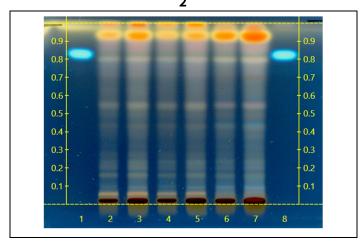
Work performed at: **Alkemist Labs**

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

Report Date: 09/30/21

Certificate of Analysis: Pine Pollen (#PP210821) High Performance Thin-Layer Chromatography with Photo-Documentation





Company Name: Lost Empire Herbs Title: Pine Pollen Plant Part: pollen Sample Received: 09/24/21 Sample Packaging: Foil Pouch

Form of Botanical: crude plant powder Appearance: Powder [black foil pouch] Lot Number: (#PP210821) → Lanes 4(2µI), 5(4µI)

21267NWW 1 Sample: Latin Name: Pinus sp.

Reference Sample: Lane 2(2µl) (21168EZR), Lane 3(4µl) (21168EZR), Lane 6(2µl) (KIRO0917SUP1), Lane 7(4µl) (KIR00917SUP1) Pinus sp.

(pollen); held at Alkemist Labs, Garden Grove, CA.

Analyst: A. Ung, B. Vuong, G. Harris, H. Waldstreicher, H. Dinh, J. Mares, K. Montoya, K. Tran, N. Hoang, N. Afendikova, P.

Hoang, S. Kabbaj, S. Sudberg 162890

0.3g+3mL Methanol, sonicate/heat at 50°C for 30 min. Sample Preparation:

Stationary Phase: Silica gel 60, HPTLC plates

Mobile Phase: ethyl acetate: formic acid: water [10/1/0.6]

Detection: (1) Vanillin/Sulfuric, 110°C, 2min, vis (Reich, E., 2007) (2) Vanillin/Sulfuric, 110°C, 2min, 366nm (Reich, E., 2007) Reference Standard: Lanes 1 (3µI) and 8 (3µI) Ferulic Acid (00006005-001, CHR)

Reference Source: Method Developed by Alkemist Labs

IDT-SOP-72-01

Comments & Conclusions: Lanes 4, 5 are the test sample Pine Pollen (#PP210821). Lanes 2, 3, 6, 7, are the reference samples used for comparison. This test sample, Pine Pollen (#PP210821) is consistent with the chromatographic profile of the reference samples of Pinus sp., used above. This test sample Pine Pollen (#PP210821) has characteristics of Pinus sp. pollen.

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

Examined, Reviewed & Authorized by: Khanh N Tran, HPTLC, R&D Supervisor, Alkemist Labs

ACCREDITED CERTIFICATE #3851.01

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 #PP210821.

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