

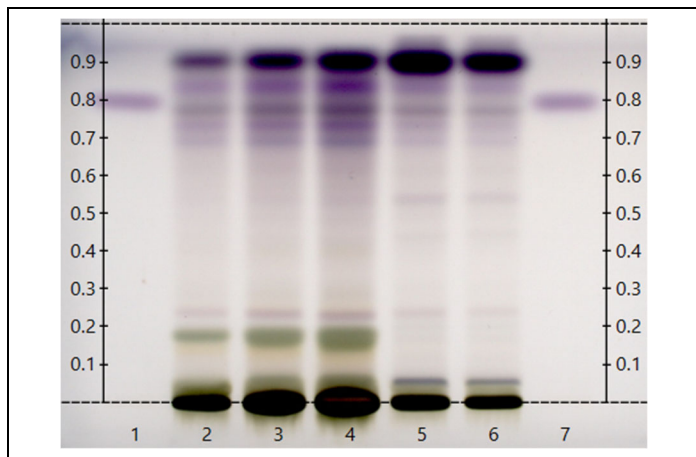
Certificate Issued To:
Lost Empire Herbs
8301 NW 101st Ter.
Kansas City, MO 64153-2321
United States



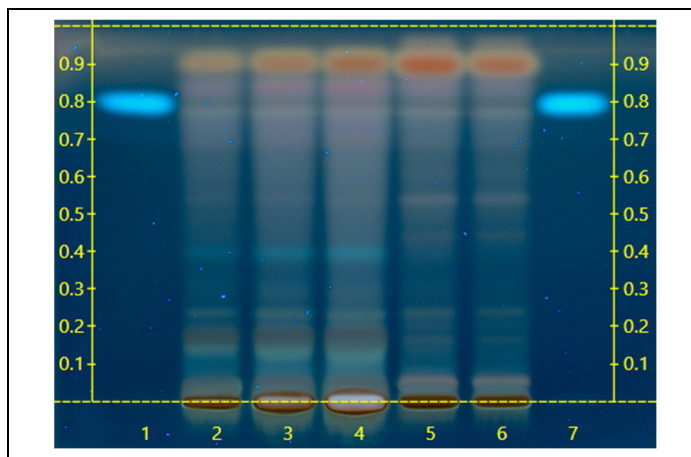
Work performed at:
Alkemist Labs
12661 Hoover Street
Garden Grove, CA 92841
714-754-HERB (4372)
714-668-9972 (FAX)
Sales@Alkemist.com
www.Alkemist.com

Certificate of Analysis: Pine Pollen Tincture (202297082)
High Performance Thin-Layer Chromatography with Photo-Documentation

1



2



Company Name: Lost Empire Herbs
Title: Pine Pollen Tincture
Plant Part: pollen
Sample Received: 08/08/22
Sample Packaging: Light Sensitive Glass Bottle or Jar
Form of Botanical: liquid extract
Appearance: cloudy liquid
Lot Number: (202297082) → Lanes 2(2µl), 3(4µl), 4(6µl)
Sample: 22220JAQ_1
Latin Name: *Pinus sp.*
Reference Sample: Lane 5(6µl) (21168EZR), Lane 6(4µl) (21168EZR) *Pinus sp.* (pollen); 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 181899
Sample Preparation: Spray directly onto plate
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(3µl) and 7(3µl) Ferulic Acid (00006005-001, CHR)
Reference Source: Method Developed by Alkemist Labs
IDT-SOP-72-01

Comments & Conclusions: Lanes 2, 3, 4 are the test sample Pine Pollen Tincture (202297082) Lanes 5, 6 are the reference samples used for comparison. This test sample, Pine Pollen Tincture (202297082), has characteristics of the chromatographic profile of *Pinus sp.* reference samples used above. **This test sample Pine Pollen Tincture (202297082) indicates the presence 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 expected.

Examined, Reviewed & Authorized by: Syhem W Kabbaj, HPTLC Production Supervisor, Alkemist Labs

Report Date: 08/12/22

ISO/IEC 17025



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 202297082. 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. © 2022 Alkemist Labs, Inc. All Rights Reserved