

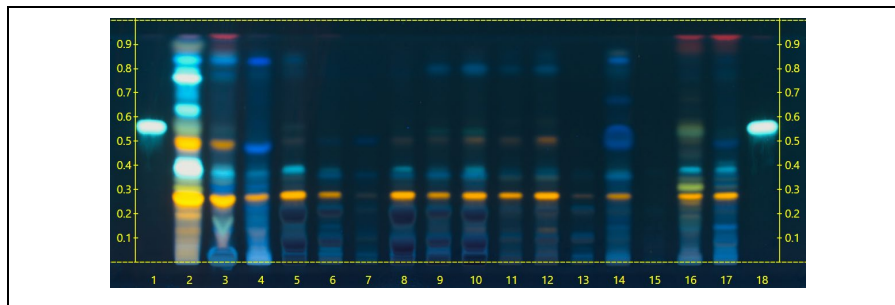
Certificate Issued To:
Lost Empire Herbs
195 Aviation Way Suite 102
Watsonville, LA 95076
USA



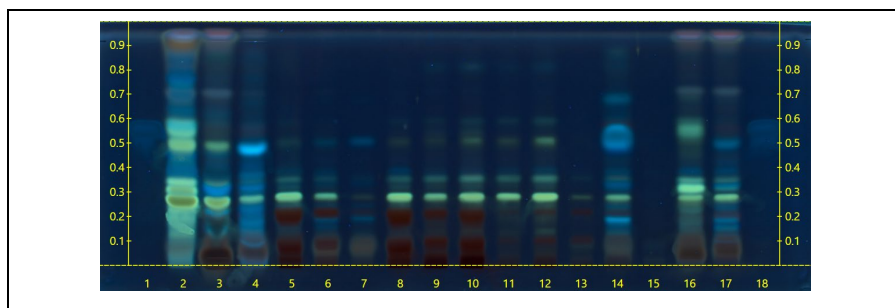
Work performed at:
Alkemist Labs
12661 Hoover Street
Garden Grove, CA 92841
714-754-HERB (4372)
714-668-9972 (FAX)
Sales@Alkemist.com
www.Alkemist.com

Certificate of Analysis: ELDERBERRY (ELD230620)
High Performance Thin-Layer Chromatography with Photo-Documentation

1



2



Company Name: Lost Empire Herbs
Title: ELDERBERRY
Plant Part: juice
Appearance: Fine Dark Purple Powder
Sample Packaging: Clear Reclosable Plastic Bag

Sample Received: 07/09/20
Form of Botanical: powdered extract
Lot Number: (ELD230620) → Lane 8(0.5µl)
Sample: 20191LKL_1

Latin Name: *Sambucus nigra* L. [Caprifoliaceae]
Reference Sample: Lane 2(6µl) (PD17113BDS1) *Sambucus nigra* (flower); Lane 3(6µl) (PD26418HH1), Lane 4(3µl) (PD20109CRB), Lane 5(0.5µl) (PD24515NC1) *Sambucus nigra* (fruit); Lane 16(3µl) (KRQ26418HH1) *Sambucus cerulea* (fruit); Lane 17(3µl) (20171BQP) *Sambucus canadensis* (fruit); held at Alkemist Labs, Garden Grove, CA.

Analyst: A. Davis, N. Afendikova, M. Edwards, S. Kabbaj, N. Hoang, K. Tran, J. Lopez, J. Mares 139559

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

Stationary Phase: Silica gel 60, HPTLC plates

Mobile Phase: ethyl acetate: Acetic acid: formic acid: water [10/0.9/0.9/2]

Detection: (1) Natural Product + Polyethylene Glycol, 366nm (Reich, E., 2007)

(2) 10% Sulfuric, 100°C, 2min, 366nm (Reich, E., 2007)

Reference Standard: Lanes 1(5µl) and 18(5µl) 5-Hydroxymethyl-2-furaldehyde (WXBC9665V, SigAl)

Reference Source: TS1-2: BTM-715-0165; TS3-8: Method Developed by Alkemist Labs
IDT-SOP-72-01

Comments & Conclusions: Lane 8 is the test sample ELDERBERRY (ELD230620) Lanes 2, 3, 4, 5, 16, 17 are the reference samples used for comparison. This test sample, ELDERBERRY (ELD230620), is consistent with the chromatographic profile of the reference samples of *Sambucus nigra* used above. **This test sample ELDERBERRY (ELD230620) has characteristics of a customized extract derived from *Sambucus nigra* juice.**

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: 07/15/20



Note: Any unidentified lanes in the above chromatograms are confidential and may represent internal studies or other test samples not related to ELD230620. **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**