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

Work performed at:
Alkemist Labs
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Garden Grove, CA 92841
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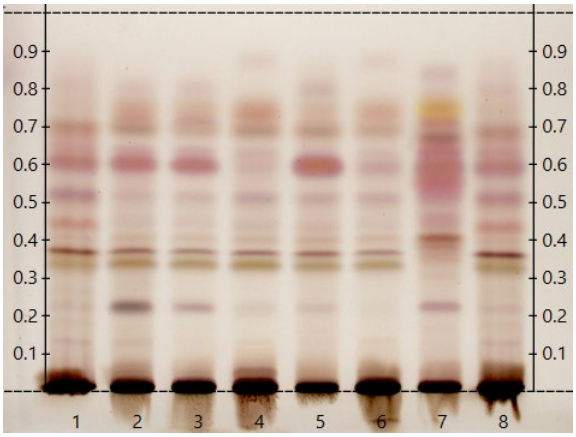
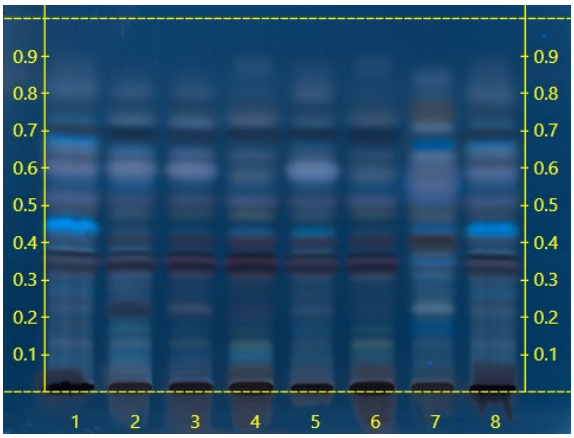
Certificate of Analysis: SCHIZANDRA (SZ230620)

High Performance Thin-Layer Chromatography with Photo-Documentation

1



2



Company Name:	Lost Empire Herbs
Title:	SCHIZANDRA
Plant Part:	fruiting body
Sample Received:	07/09/20
Sample Packaging:	Light Sensitive Reclosable Plastic Bag
Form of Botanical:	powdered extract
Appearance:	Fine Powder
Lot Number:	(SZ230620) →Lane 4(5µl)
Sample:	20191NQN_1
Latin Name:	*Schisandra chinensis* (Turcz.) Baill. [Schisandraceae]
Reference Sample:	Lane 2(5µl) (G16414AHP1), Lane 3(5µl) (G05715MRH1) Schisandra chinensis (fruit); Lane 7(5µl) (18355LYG) Schisandra sphenanthera (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 139558
Sample Preparation:	0.3g+3mL 70% grain Ethanol, sonicate/heat at 50° C for 30 min.
Stationary Phase:	Silica gel 60, HPTLC plates
Mobile Phase:	toluene: ethyl acetate: acetic acid [7/3.3/0.3]
Detection:	(1) 10% Sulfuric, 100°C, 2min, Vis (Reich, E., 2007) (2) 10% Sulfuric, 100°C, 2min, 366nm (Reich, E., 2007)
Reference Standard:	Lanes 1(5µl) and 8(5µl) Schisandra Chinensis Fruit Dry Extract (F00820, USP)
Reference Source:	BTM-715-0118 IDT-SOP-72-01

Comments & Conclusions: Lane 4 is the test sample SCHIZANDRA (SZ230620). Lanes 2, 3, 7, are the reference samples used for comparison. This test sample, SCHIZANDRA (SZ230620) is consistent with the chromatographic profile of the reference samples of *Schisandra chinensis,* used above. **This test sample SCHIZANDRA (SZ230620) has characteristics of *Schisandra chinensis* fruit.**

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.

Khanh Tran
HPTLC, R&D Technical Supervisor

Digitally signed by Khanh Tran
DN: cn=Khanh Tran, o=Alkemist Laboratories, ou, email=khanh@alkemist.com, c=US
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Examined, Reviewed & Authorized by: Khanh N Tran, HPTLC, R&D Supervisor, Alkemist Labs

Report Date: 07/15/20

ISO/IEC 17025
ACCREDITED
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 SZ230620.