

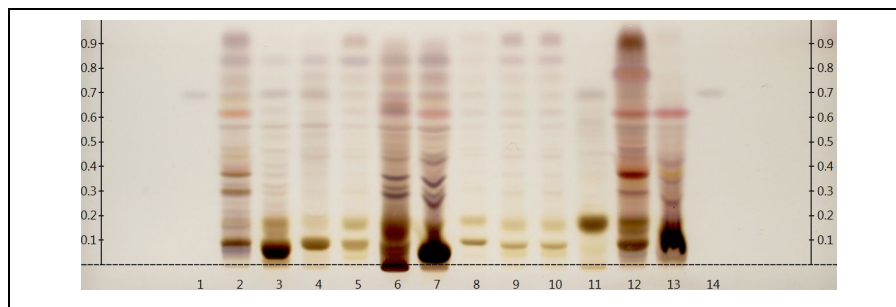
Certificate Issued To:
Lost Empire Herbs
195 Aviation Way Suite 102
Watsonville, LA 95076
USA



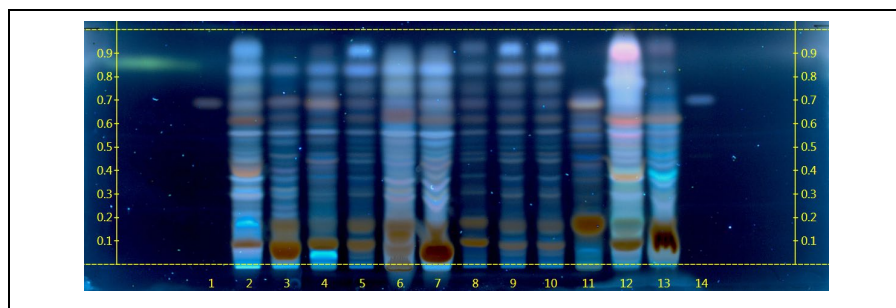
Work performed at:
Alkemist Labs
12661 Hoover Street
Garden Grove, CA 92841
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Certificate of Analysis: Ashwagandha Spagyric Tincture (AshT270120)
High Performance Thin-Layer Chromatography with Photo-Documentation

1



2



Company Name: Lost Empire Herbs
Title: Ashwagandha Spagyric Tincture
Plant Part: Root
Appearance: Finished product
Sample Packaging: Light Sensitive Glass Bottle or Jar

Sample Received: 01/31/20
Form of Botanical: liquid extract
Lot Number: (AshT270120) → Lanes 11 (4µl), 12 (8µl)
Sample: 20031BFR_1

Latin Name: *Withania somnifera* (L.) Dunal [Solanaceae]
Reference Sample: Lane 2 (8µl) (J12903PI), Lane 3 (8µl) (J17309PUK), Lane 4 (8µl) (J35616PB1) *Withania somnifera* (root); Lane 12 (8µl) (J02218NRPL2), Lane 13 (8µl) (J02218NRPL2) *Withania somnifera* (aerial part); held at Alkemist Labs, Garden Grove, CA.

Analyst: A. Davis, N. Afendikova, M. Edwards, S. Kabbaj, N. Hoang, K. Tran, J. Lopez, J. Mares 130694
Sample Preparation: Spray directly onto plate
Stationary Phase: Silica gel 60, HPTLC plates
Mobile Phase: Chloroform: Ethyl Acetate: Methanol: Water [3/8/4.4/1.8]
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 (2µl) and 14 (2µl) Withanolide A (F0I269, USP), Methanol (57062, EMD)
Reference Source: BTM-715-0296
IDT-SOP-72-01

Comments & Conclusions: Lane 11 is the test sample Ashwagandha Spagyric Tincture (AshT270120) Lanes 2, 3, 4, 12, 13 are the reference samples used for comparison. This test sample, Ashwagandha Spagyric Tincture (AshT270120), has characteristics of the chromatographic profile of *Withania somnifera* reference samples used above. **This test sample Ashwagandha Spagyric Tincture (AshT270120) indicates the presence of a customized extract derived from *Withania somnifera* 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: Khanh N Tran, HPTLC, R&D Supervisor, Alkemist Labs

Report Date: 02/06/20



Note: Any unidentified lanes in the above chromatograms are confidential and may represent internal studies or other test samples not related to AshT270120.
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