

Certificate Issued To:
Superman Herbs
2800 Rodeo Gulch Dr Unit G
Soquel, CA 95073
USA

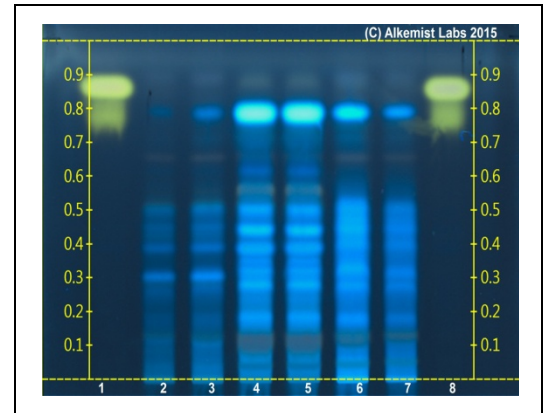
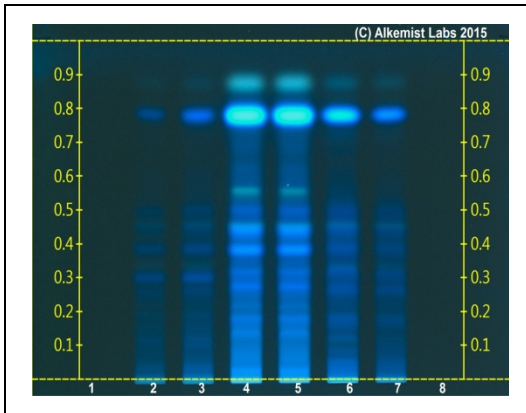


Work performed at:
Alkemist Labs
1260 Logan Ave B2
Costa Mesa, CA 92626
714-754-HERB (4372)
714-668-9972 (FAX)
E-mail: sales@alkemist.com
Web Site: www.alkemist.com

Certificate of Analysis: Tongkat Ali (TO01)
High Performance Thin-Layer Chromatography with Photo-Documentation

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Company Name: Superman Herbs
Title: Tongkat Ali
Plant Part: root
Sample Received: 11/11/2015
Sample Description: Clear Reclosable Plastic Bag
Form of Botanical: powdered extract
Appearance: brown fine powder
Lot : (TO01) → Lanes 4(3µl), 5(3µl)
Sample : XY31515SUP1_1
Latin Name: Eurycoma longifolia
Reference Sample : Lane 2(2µl) (XY00506AP) Eurycoma longifolia (root); Lane 3(4µl) (XY00506AP) Eurycoma longifolia (root); Lane 6(4µl) (XY03614MAYA1) Eurycoma longifolia (root); Lane 7(2µl) (XY03614MAYA1) Eurycoma longifolia (root); held at Alkemist Labs, Costa Mesa, CA.
Analyst: N. Hoang, L. Scott, P. Fast, T. Collins 62720
Sample Prep: 0.3g+3mL CH₃OH sonicate/heat @-50° C ~ 1/2 hr.
Stationary Phase: Silica gel 60, F₂₅₄, HPTLC plates
Mobile Phase: CHCl₃: CH₃OH: H₂O [7/3/0.4]
Detection: (1) UV 365 nm
(2) 10% Ethanolic H₂SO₄ → 120° C 10 min → UV 365 nm
Reference Std: Lanes 1(3µl) and 8(3µl) Ursolic Acid (BCBM9640V, SigAl), ~0.1% in CH₃OH (041715D, VWR)
Reference Source: HPTLC Association Tongkat Ali root (Eurycoma longifolia)
IDT-SOP-72-01

Comments & Conclusions: Lanes 4, 5 are the test sample Tongkat Ali (TO01). Lanes 2, 3, 6, 7 are the reference samples used for comparison. This test sample, Tongkat Ali (TO01), is consistent with the chromatographic profile of the reference samples of Eurycoma longifolia, used above. **This test sample, Tongkat Ali (TO01) has characteristics of an extract derived from Eurycoma longifolia 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: Sandy Sudberg, Senior Data Analyst, Alkemist Labs

Report Date: 11/19/2015

Note: Any unidentified lanes in the above chromatograms are confidential and may represent internal studies or other test samples not related to TO01. 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 Pharmaceuticals, 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. © 2015 Alkemist Labs, Inc. All Rights Reserved