

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

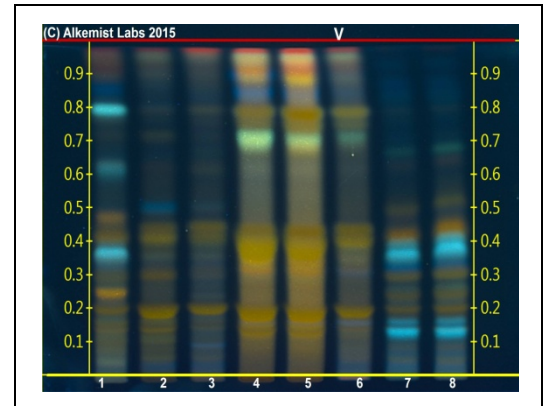
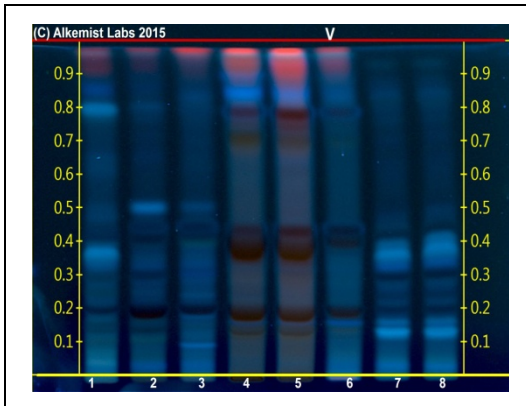


Work performed at:
Alkemist Labs
1260 Logan Ave B2
Costa Mesa, CA 92626
714-754-HERB (4372)
714-668-9972 (FAX)
E-mail: sales@alkemist.com
Web Site: www.alkemist.com

Certificate of Analysis: Horny goat weed (90)
High Performance Thin-Layer Chromatography with Photo-Documentation

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Company Name: Superman Herbs
Title: Horny goat weed
Plant Part: herb (leaf, flower, stem)
Sample Received: 3/16/2015
Sample Description: Clear Reclosable Plastic Bag
Form of Botanical: powdered extract
Appearance: light brown fine powder
Lot : (90) → Lane 6(3µl)
Sample : HAQ07515SUP1_1
Latin Name: Epimedium koreanum
Reference Sample : Lane 1(3µl) (CI25611MRH1) Epimedium grandiflorum (leaf); Lane 2(3µl) (FS11407BIN) Epimedium sagittatum (leaf); Lane 3(3µl) (OY36304SWH) Epimedium brevicornum (leaf); Lane 7(3µl) (HAQ25211MYWY1) Epimedium koreanum (herb); Lane 8(3µl) (HAQ18911MYWY1) Epimedium koreanum (herb); held at Alkemist Labs, Costa Mesa, CA.
Analyst: JN, ML, JK, CB 54217
Sample Prep: 0.3g+3mL CH₃OH sonicate/heat @-50° C ~ 1/2 hr.
Stationary Phase: Silica gel 60, F₂₅₄, HPTLC plates
Mobile Phase: ethyl acetate: Acetic acid: HCOOH: H₂O [10/0.9/0.9/2]
Detection: (1) UV 365 nm
(2) Natural Product Reagent + PEG → UV 365 nm
Reference Source: Method Developed by Alkemist Labs
IDT-SOP-72-01

Comments & Conclusions: Yellow line = sample origin @ 10mm, red line = solvent front @ 70mm. Lane 6 is the test sample Horny goat weed (90). Lanes 1, 2, 3, 7, 8 are the reference samples used for comparison. This test sample, Horny goat weed (90), is consistent with the chromatographic profile of the reference samples of Epimedium sp., used above. **This test sample, Horny goat weed (90) is characteristic of an extract derived from Epimedium sp. herb (leaf, flower, stem).**

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: 3/24/2015

Note: Any unidentified lanes in the above chromatograms are confidential and may represent internal studies or other test samples not related to 90.

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