

Certificate Issued To:
Dietary Formulae Inc
1901 60th Place E, Suite L3627
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USA

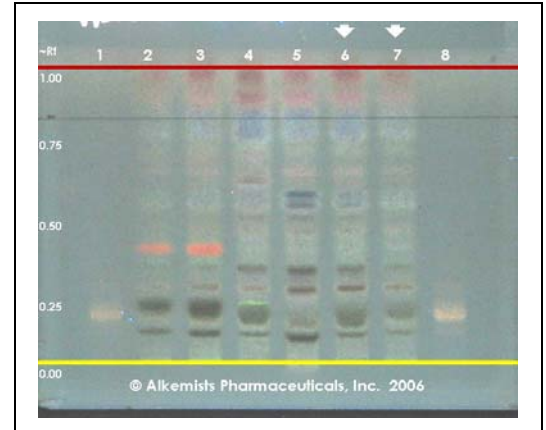
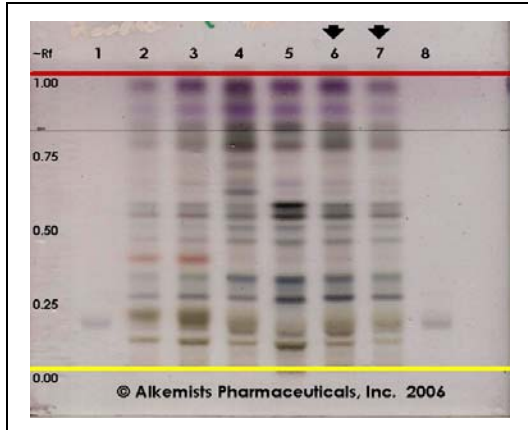


Work performed at:
Alkemists Pharmaceuticals
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Costa Mesa, CA 92626
714-754-HERB (4372)
714-668-9972 (FAX)
E-mail: info@alkemist.com
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Certificate of Analysis 1 of 3: Hoodia (5060104030056)
High Performance Thin-Layer Chromatography with Photo-Documentation

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Company Name: Dietary Formulae Inc
Title: Hoodia
Plant Part: aerial part
Sample Received: 12/4/2006
Sample Description: ~0.4g x 60 capsules
Form of Botanical: crude plant powder
Appearance: beige powder in clear capsule
Source: n/a
Lot #: (5060104030056) → Lanes 6(6µl), 7(3µl)
Sample #: AU33806ADUK
Latin Name: Hoodia gordonii (Masson) Sweet ex Decne
Reference Sample #: Lane 4(5µl) (AU29006TA2) (aerial part); Lane 5(5µl) (AU21906DBL) (aerial part) Hoodia gordonii authenticated by macroscopic, microscopic &/or TLC studies according to the reference source cited below, and matching the voucher specimen (AU20604AP) held at Alkemists Pharmaceuticals, Costa Mesa, CA.
Examiner: SSS
Sample Prep: 0.2 g + 4 ml CH₃OH sonicated + heated in a dry block incubator @ 65° C ~ 1 hr.
Stationary Phase: Silica gel 60, F₂₅₄, 10 x 10 cm HPTLC plates
Mobile Phase: ethyl acetate: methanol: water [7.7/1.7/1]
Detection: (1) Vanillin/H₂SO₄ Reagent → 110° C 5 min → visible light
(2) Vanillin/H₂SO₄ Reagent → 110° C 5 min → UV 365 nm
Reference Std: Lanes 1(3µl) and 8(3µl) Aescin (93H1029, Sigma-Aldrich) ~0.1% in CH₃OH
Reference Source: Method Developed by Alkemists Pharmaceuticals

Comments & Conclusions: Yellow line = sample origin @ 10mm, red line = solvent front @ 60mm. Lanes 6, 7 are the test sample Hoodia (5060104030056). Lanes 4, 5 are the authenticated reference samples used for comparison.

This test sample, Hoodia (5060104030056), is consistent with the chromatographic profile of the reference samples of Hoodia gordonii used above & is characteristic of Hoodia gordonii aerial part.

Authorized by: Sidney Sudberg, Director, Alkemists Pharmaceuticals

Report Date: 12/12/2006

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