

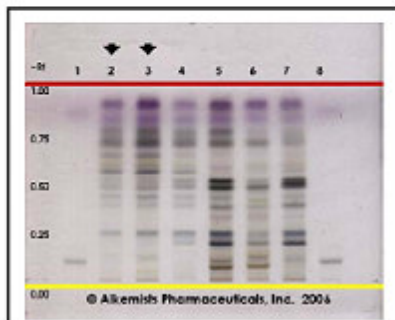
Certificate Issued To:



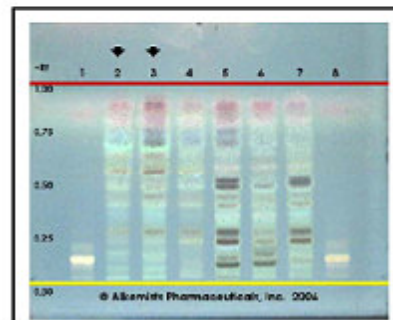
Work performed at:
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Certificate of Analysis 1 of 3: Hoodia (060814)
High Performance Thin-Layer Chromatography with Photo-Documentation

1



2



Company Name:
Title: Hoodia
Plant Part: aerial part
Sample Received: 8/31/2006
Sample Description: ~40g in a zip lock bag
Form of Botanical: crude plant powder
Appearance: beige powder with speckles
Source: N/A
Lot #: (060814) → Lanes 2(2µl), 3(4µl)
Sample #: AU24306MHS
Latin Name: Hoodia gordonii (Masson) Sweet ex Decne
Reference Sample #: Lane 4(3µl)(AU14206TA1)(aerial part); Lane 5(3µl)(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 + 4ml 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 2, 3 are the test sample Hoodia (060814). Lanes 4, 5 are the authenticated reference samples used for comparison. **This test sample, Hoodia (060814), is characteristic of Hoodia gordonii aerial parts & is consistent with the chromatographic profile of the reference samples of Hoodia gordonii used above.**

Authorized by: Sidney Sudberg, Director, Alkemists Pharmaceuticals

Report Date: 9/7/2006

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