

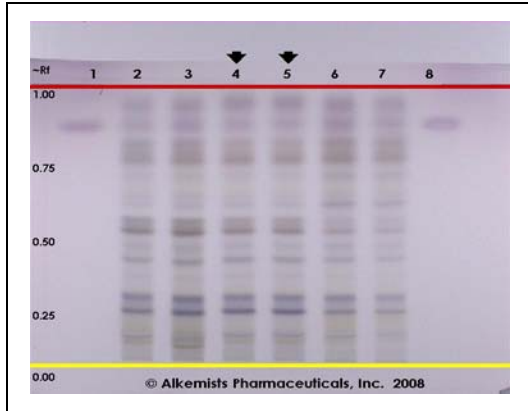
Certificate Issued To:  
**Nature's Biology LLC**  
6303 Ownesmouth Avenue, 10th  
Floor  
Woodland Hills, CA 91367



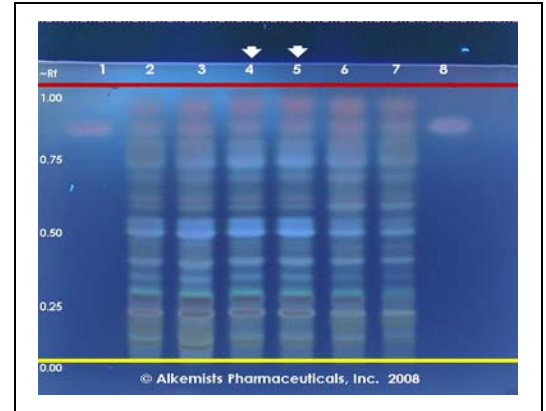
Work performed at:  
**Alkemists Pharmaceuticals**  
1260 Logan Ave B3  
Costa Mesa, CA 92626  
714-754-HERB (4372)  
714-668-9972 (FAX)  
E-mail: info@alkemist.com  
Web Site: www.alkemist.com

**Certificate of Analysis 2 of 3: Hoodia gordonii (1/15/2009)**  
High Performance Thin-Layer Chromatography with Photo-Documentation

1



2



Company Name: Nature's Biology LLC  
Title: Hoodia gordonii  
Plant Part: aerial part  
Sample Received: 1/15/2009  
Sample Description: ~10g in a plastic bag  
Form of Botanical: crude plant powder  
Appearance: beige powder  
Source: n/a  
Lot #: (1/15/2009) → Lanes 4(5µl), 5(5µl)  
Sample #: AU01509NBL  
Latin Name: Hoodia gordonii (Masson) Sweet ex Decne  
Reference Sample #: Lanes 2(3µl), 3(5µl) (AU14207AHPA1) (aerial part); Lanes 6(5µl), 7(3µl) (AU29006TA2) (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 7811  
Sample Prep: 0.25g exactly + 5ml CH<sub>3</sub>OH sonicated + heated @ 50° C ~ 1 hr.  
Stationary Phase: Silica gel 60, F<sub>254</sub>, 10 x 10 cm HPTLC plates  
Mobile Phase: ethyl acetate: methanol: water [7.7/1.7/1]  
Detection: (1) Vanillin/H<sub>2</sub>SO<sub>4</sub> Reagent → 110° C 5 min → visible light  
(2) Vanillin/H<sub>2</sub>SO<sub>4</sub> Reagent → 110° C 5 min → UV 365 nm  
Reference Std: Lanes 1(3µl) and 8(3µl) b-Sitosterol (Chromadex; 04/06/06; 19285-541; 25 mg; HPLC Freezer / "Pygeum" Ref Std Kit; )(P) ~0.1% in CH<sub>3</sub>OH  
Reference Source: Method Developed by Alkemists Pharmaceuticals

**Comments & Conclusions:** Yellow line = sample origin @ 10mm, red line = solvent front @ 70mm. Lanes 4, 5 are the test sample Hoodia gordonii (1/15/2009). Lanes 2, 3, 6, 7 are the authenticated reference samples used for comparison.

**This test sample, Hoodia gordonii (1/15/2009), is consistent with the chromatographic profile of the reference samples of Hoodia gordonii used above. This test sample, Hoodia gordonii (1/15/2009) is characteristic of Hoodia gordonii aerial part.**

Authorized by: Sidney Sudberg, Director, Alkemists Pharmaceuticals

Report Date: 1/21/2009

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