

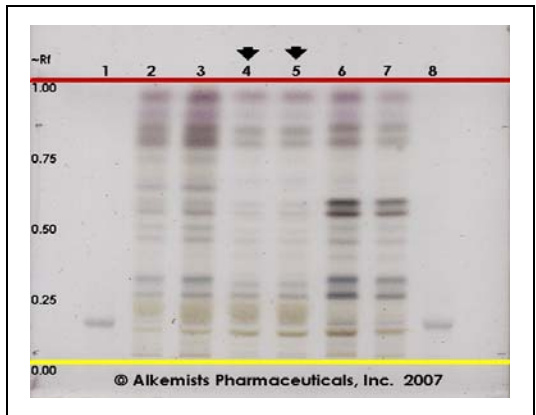
Certificate Issued To:  
Great Herbal Labs LLC  
3501 N Causeway Blvd. # 367  
Metairie, LA 70001



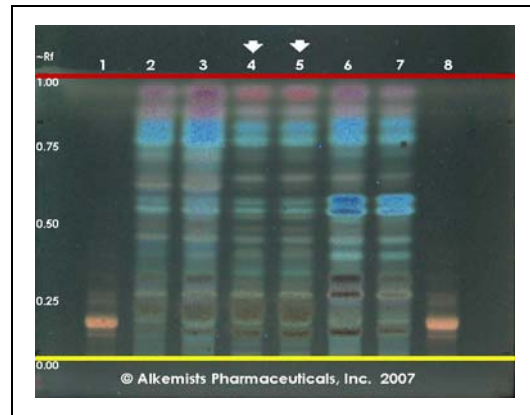
Work performed at:  
**Alkemists Pharmaceuticals**  
1260 Logan Ave B3  
Costa Mesa, CA 92626  
714-754-HERB (4372)  
714-668-9972 (FAX)  
E-mail: info@alkemist.com  
Web Site: www.alkemist.com

**Certificate of Analysis 2 of 3: Hoodia gordonii (336705)**  
High Performance Thin-Layer Chromatography with Photo-Documentation

1



2



Company Name: Great Herbal Labs LLC  
Title: Hoodia gordonii (Masson) Sweet ex Decne  
Plant Part: aerial parts  
Sample Received: 8/17/2007  
Sample Description: ~4 grams in a zip lock bag  
Form of Botanical: crude plant powder  
Appearance: light tan powder  
Source: NA  
Lot #: (336705) → Lanes 4(5µl), 5(5µl)  
Sample #: AU22907GHL  
Latin Name: Hoodia gordonii (Masson) Sweet ex Decne  
Reference Sample #: Lanes 2(3µl), 3(6µl) (AU29006TA2) (aerial part); Lanes 6(6µl), 7(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 4580  
Sample Prep: 0.25g exactly + 5ml CH<sub>3</sub>OH sonicated + heated in a dry block incubator @ 65° 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) Aescin (93H1029, Sigma-Aldrich) ~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 (Masson) Sweet ex Decne (336705). Lanes 2, 3 & 6, 7 are the authenticated reference samples used for comparison. **This test sample, Hoodia gordonii (Masson) Sweet ex Decne (336705), is consistent with the chromatographic profile of the reference samples of Hoodia gordonii used above. This test sample, Hoodia gordonii (336705) is characteristic of Hoodia gordonii aerial parts.**

Authorized by: Sidney Sudberg, Director, Alkemists Pharmaceuticals

Report Date: 8/23/2007

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