

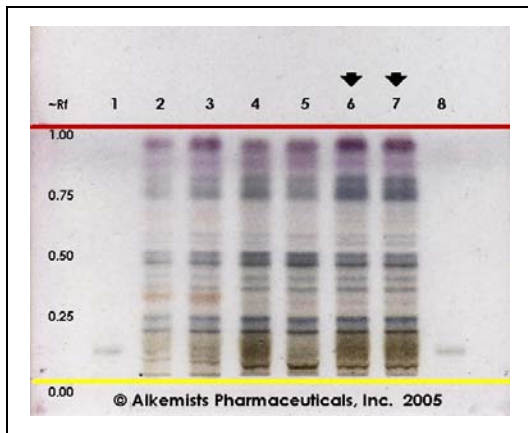
Certificate Issued To:  
Hoodia Products L.L.C.  
7429 Rolling Hills Circle  
Dublin, CA 94568



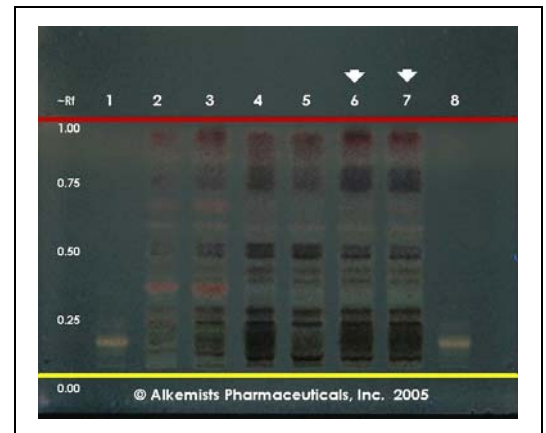
Work performed at:  
**Alkemists Pharmaceuticals**  
1260 Logan Ave B3  
Costa Mesa, CA 92626  
714-754-HERB (4372)  
714-668-9972 (FAX)  
E-mail: phytolab@alkemist.com  
Web Site: www.alkemist.com

**Certificate of Analysis: Hoodia (1003)**  
High Performance Thin-Layer Chromatography with Photo-Documentation

(1)



(2)



Company Name: Hoodia Products L.L.C.  
Title: Hoodia  
Plant Part: aerial part  
Sample Received: 11/14/2005  
Sample Description: ~7g in a zip-locked bag  
Form of Botanical: crude plant powder  
Appearance: beige powder  
Lot #: (1003) → Lanes 6(4µl), 7(2µl)  
Sample #: AU31805HPL  
Latin Name: Hoodia gordonii  
Reference Sample #: Lane 4(3µl) (AU36504FMG) (aerial part); Lane 5(3µl) (AU11805MHS1) (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: Proprietary Information Removed  
Stationary Phase: Proprietary Information Removed  
Mobile Phase: Proprietary Information Removed  
Detection: (1) Proprietary Information Removed  
(2) Proprietary Information Removed  
Reference Std: Proprietary Information Removed  
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 (1003). Lanes 4, 5 are the authenticated reference samples used for comparison. As per the reference cited above & the reference samples used for comparison, this test sample is characteristic of Hoodia gordonii. **The chromatographic profile demonstrated above confirms the identity of Hoodia (1003).**

Authorized by: Sidney Sudberg, Director, Alkemists Pharmaceuticals

Report Date: 11/28/2005

This report applies to the sample investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public and this laboratory, this report is submitted and accepted for the exclusive use of the client whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from this laboratory.  
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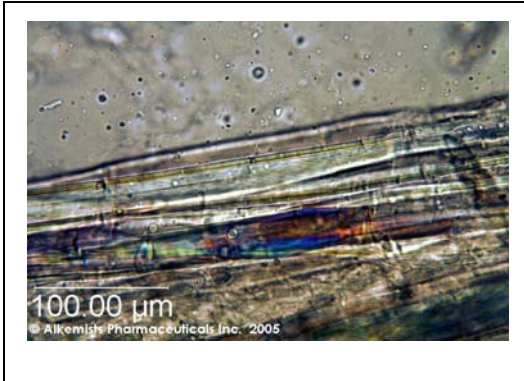
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**7429 Rolling Hills Circle**  
**Dublin, CA 94568**



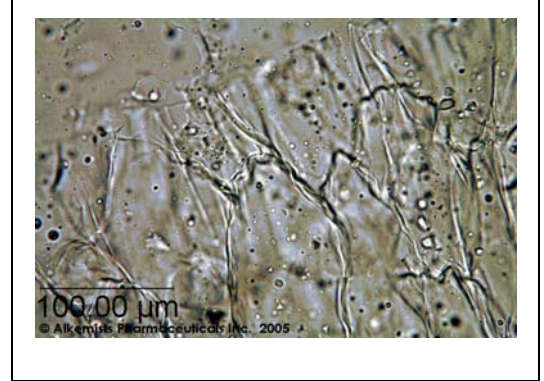
Work performed at:  
**Alkemists Pharmaceuticals Inc.**  
1260 Logan Ave B3  
Costa Mesa, CA 92626  
714-754-HERB (4372)  
714-668-9972 (FAX)  
E-mail: phytolab@alkemist.com  
Web Site: www.alkemist.com

**Certificate of Analysis: Hoodia (1003)**  
**Microscopy with Digital Photo-Documentation**

1



2



Company Name:	Hoodia Products L.L.C.
Title:	Hoodia
Plant Part:	aerial part
Sample Received:	11/14/2005
Sample Description:	~7g in a zip-locked bag
Source:	N/A
Form of Botanical:	crude plant powder
Appearance:	beige powder
Lot #:	1003
Sample #:	AU31805HPL
Reference Sample #:	Voucher Specimen AU20604AP, AU19004PHX, AU11004CHR Hoodia gordonii authenticated by macroscopic, microscopic &/or TLC studies according to the reference sources cited below held at Alkemists Pharmaceuticals, Costa Mesa, CA.
Latin Name:	Hoodia gordonii
Examiner:	EMS
Magnification:	(1) 400X
Chemical Reagents:	(1) acidified chloral hydrate glycerol solution
Sample Findings:	(1) long fibers showing whirled striations
Magnification:	(2) 400X
Chemical Reagents:	(2) acidified chloral hydrate glycerol solution
Sample Findings:	(2) large thin walled parenchyma showing wrinkled cell walls
Reference Source:	Method Developed by Alkemists Pharmaceuticals USP-PF, Vol. 27(2) [Mar.-Apr. 2001]; Official Methods of Analysis of AOAC, 16 <sup>th</sup> Ed.

**Comments & Conclusions:**

This sample is representative of Hoodia gordonii aerial part based on an authenticated microscopic reference and the consistent characteristic cellular structure of an aerial part as well as the references cited above. The characteristic cellular structures identified in this sample are the long fibers showing whirled striations seen in micrograph (1) above & in micrograph (2) we see the large thin walled parenchyma showing wrinkled cell walls. **These characteristic cellular structures confirm the identity of Hoodia aerial part (1003).**

Analyzed by: Élan M Sudberg  
Authorized by: Sidney Sudberg, Director, Alkemists Pharmaceuticals

Report Date: 12/1/2005

This report applies to the sample investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public and this laboratory, this report is submitted and accepted for the exclusive use of the client whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from this laboratory.  
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Report Issued To  
Hoodia Products L.L.C.  
7429 Rolling Hills Circle  
Dublin, CA 94568



Work performed at:  
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Natural Product Consulting and  
Quality Control  
1260 Logan Ave B3  
Costa Mesa, CA 92626  
714-754-HERB (4372)  
714-668-9972 (FAX)  
E-mail: phytolab@alkemist.com  
Web Site: www.alkemist.com

**\*\*Certificate of Analysis\*\***

Assay for:

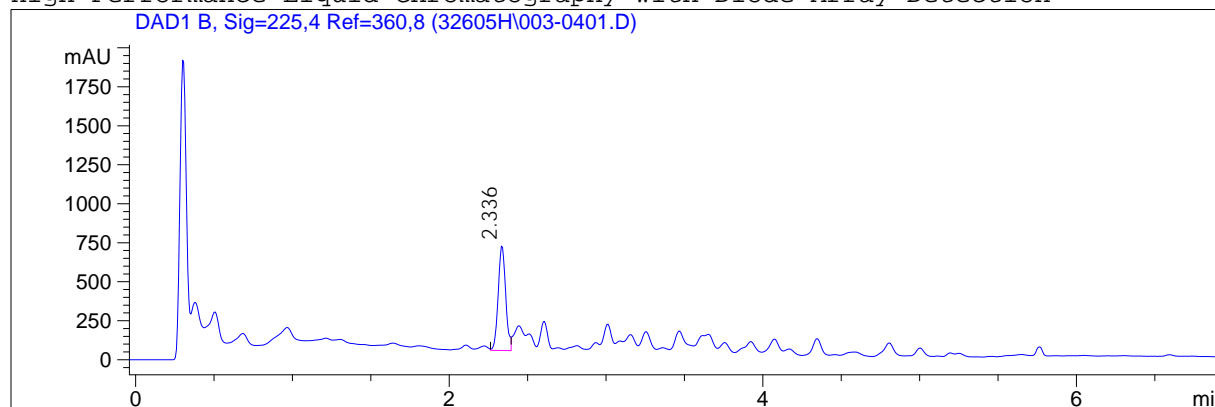
Hoodia gordonii Fingerprint Analysis for Identity & Purity;

Semi-Quantitative Analysis for Potency

Hoodia gordonii: (lot #: 1003)

->

High Performance Liquid Chromatography with Diode Array Detection



Sample : Hoodia gordonii herb  
Sample #: AU31805HPL

HPLC column : Proprietary Information Removed  
Mobile Phase A: Proprietary Information Removed  
Mobile Phase B: Proprietary Information Removed

Time	%A	%B
0 min	80	20
5 min	20	80
5.01 min	0	100
7 min	0	100

Column Temperature: Proprietary Information Removed  
Flow rate : Proprietary Information Removed  
UV detection : Proprietary Information Removed  
Injection : Proprietary Information Removed  
Sample Preparation: Proprietary Information Removed

Comments & Conclusions: The chromatographic profile demonstrated above is characteristic of Hoodia gordonii & confirms the identity of this test sample (Lot # 1003) based upon the fingerprint of a voucher reference specimen of Hoodia gordonii deposited in the herbarium at Alkemists Pharmaceuticals, Inc.

Analysis Date: 11/22/2005

Analyzed by: SS/JH

Authorized by: Sidney Sudberg, Director

This report applies to the sample investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public and this laboratory, this report is submitted and accepted for the exclusive use of the client whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from this laboratory.

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