

Certificate Issued To:
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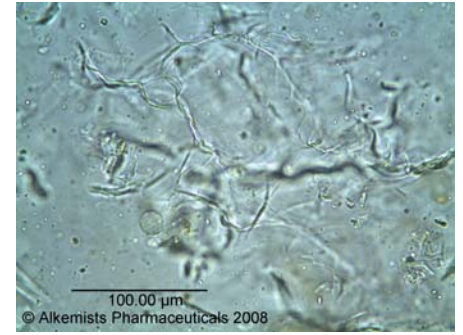
Certificate of Analysis: Hoodia gordonii aerial part (1/15/2009)

Macroscopy & Microscopy with Digital Photo-Documentation

1

2

3



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:	(1) beige powder
Lot #:	1/15/2009
Sample #:	AU01509NBL
Latin Name:	Hoodia gordonii (Masson) Sweet ex Decne
Reference Sample #:	AU14207AHPA1, AU21906DBL, AU29006TA2, AU20604AP, AU15606AHP2, AU30405TA1 Hoodia gordonii (Masson) Sweet ex Decne authenticated by macroscopic, microscopic &/or TLC studies according to the reference source cited below held at Alkemists Pharmaceuticals, Costa Mesa, CA.
Examiner:	EMS
Magnification:	(2) 400X
Chemical Reagents:	(2) acidified chloral hydrate glycerol solution
Sample Findings:	(2) fiber showing whirled striations
Magnification:	(3) 400X
Chemical Reagents:	(3) acidified chloral hydrate glycerol solution
Sample Findings:	(3) large thin walled parenchyma showing wrinkled cell walls
Reference Source:	Identification and determination of purity of powdered raw materials labeled as Hoodia gordonii stems, American Herbal Products Association 2007 USP-PF, Vol. 27(2) [Mar.-Apr. 2001]; Official Methods of Analysis of AOAC, 16 th Ed.

Comments & Conclusions:

This sample is representative of Hoodia gordonii aerial part based on authenticated reference samples and the consistent characteristic cellular structure of an aerial part as well as the reference cited above. The characteristic cellular structures identified in this sample are the fiber showing whirled striations seen in micrograph (2) above. In micrograph (3) we see the large thin walled parenchyma showing wrinkled cell walls. **This test sample, Hoodia gordonii (1/15/2009), is consistent with the microscopic characteristics of the reference samples of Hoodia gordonii used above & is characteristic of Hoodia gordonii aerial part.**

NOTE: The presence of soluble excipients and other plant species material was not detected in this test sample.

Analyzed by: Élan M Sudberg

Authorized by: Sidney Sudberg, Director, Alkemists Pharmaceuticals

Report Date: 1/22/2009

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