

Certificate Issued To:
**Millennium Health Supplements
(Cda) Inc.**
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Work performed at:
Alkemists Pharmaceuticals Inc.
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Certificate of Analysis 3 of 3: Hoodia (43488)
Macroscopy & Microscopy with Digital Photo-Documentation

1



2



3



Company Name: Millennium Health Supplements (Cda) Inc.
Title: Hoodia
Plant Part: aerial part
Sample Received: 9/10/2007
Sample Description: ~25g in a zip lock bag
Form of Botanical: crude plant powder
Appearance: (1) beige powder with specks
Lot #: 43488
Sample #: AU25307MHS
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) fibers 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: Method Developed by Alkemists Pharmaceuticals
USP-PF, Vol. 27(2) [Mar.-Apr. 2001]; Official Methods of Analysis of AOAC, 16th Ed.

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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 references 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 (43488), is consistent with the microscopic characteristics of the reference samples of Hoodia gordonii used above & is characteristic of Hoodia gordonii aerial part.**

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

Report Date: 9/17/2007

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