

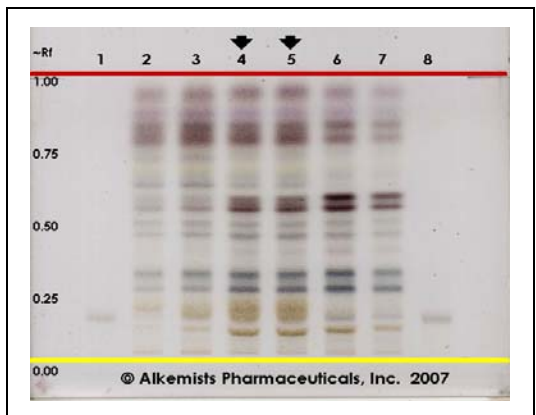
Certificate Issued To:
**Millennium Health Supplements
(Cda) Inc.**
2020 Wentworth St. Unit 30
Bowmanville, ON L1N 9A8
Canada



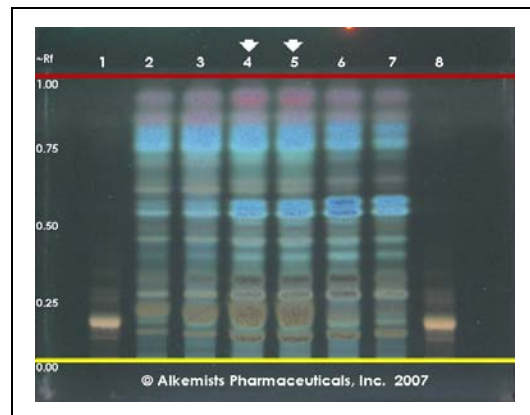
Work performed at:
Alkemists Pharmaceuticals
1260 Logan Ave B3
Costa Mesa, CA 92626
714-754-HERB (4372)
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E-mail: info@alkemist.com
Web Site: www.alkemist.com

Certificate of Analysis 2 of 3: Hoodia (43488)
High Performance Thin-Layer Chromatography with Photo-Documentation

1



2



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: beige powder with specs
Source: N/A
Lot #: 43488 → Lanes 4(5µl), 5(5µl)
Sample #: AU25307MHS
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 4690
Sample Prep: 0.25g exactly + 5ml CH₃OH sonicated + heated in a dry block incubator @ 65° C ~ 1 hr.
Stationary Phase: Silica gel 60, F₂₅₄, 10 x 10 cm HPTLC plates
Mobile Phase: ethyl acetate: methanol: water [7.7/1.7/1]
Detection: (1) Vanillin/H₂SO₄ Reagent → 110° C 5 min → visible light
(2) Vanillin/H₂SO₄ Reagent → 110° C 5 min → UV 365 nm

Reference Std: Lanes 1(3µl) and 8(3µl) Aescin (93H1029, Sigma-Aldrich) ~0.1% in CH₃OH
Reference Source: Method Developed by Alkemists Pharmaceuticals

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Comments & Conclusions: Yellow line = sample origin @ 10mm, red line = solvent front @ 70mm. Lanes 4, 5 are the test sample Hoodia (43488). Lanes 2, 3 & 6, 7 are the authenticated reference samples used for comparison. **This test sample, Hoodia (43488), is consistent with the chromatographic profile of the reference samples of Hoodia gordonii used above. This test sample, Hoodia (43488) is characteristic of Hoodia gordonii aerial part.**

Authorized by: Sidney Sudberg, Director, Alkemists Pharmaceuticals Report Date: 9/18/2007

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