

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

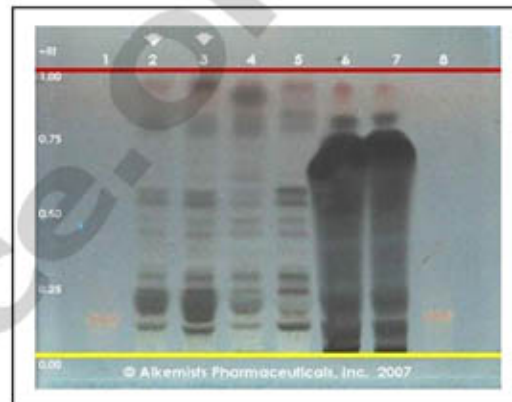


Work performed at:
Alkemists Pharmaceuticals
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Certificate of Analysis 1 of 3: "Hoodia Hoodia"- hoodia (061215 exp 1/2011)
High Performance Thin-Layer Chromatography with Photo-Documentation

1

2



Company Name: Millennium Health Supplements (Cda) Inc.
Title: "Hoodia Hoodia"- hoodia
Plant Part: aerial part
Sample Received: 3/12/2007
Sample Description: 400mg x 60 capsules in a sealed labeled bottle
Form of Botanical: crude plant powder
Appearance: 60 capsules
Source: N/A
Lot #: (061215 exp 1/2011) → Lanes 2(3µl), 3(6µl)
Sample #: AU07107MHS1
Latin Name: Hoodia gordonii (Masson) Sweet ex Decne
Reference Sample #: Lane 4(5µl) (AU29006TA2) (aerial part); Lane 5(5µl) (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 4004
Sample Prep: 0.2 g + 4 ml 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

Comments & Conclusions: Yellow line = sample origin @ 10mm, red line = solvent front @ 70mm. Lanes 2, 3 are the test sample "Hoodia Hoodia"- hoodia (061215 exp 1/2011). Lanes 4, 5 are the authenticated reference samples used for comparison. **This test sample, "Hoodia Hoodia"- hoodia (061215 exp 1/2011), is consistent with the chromatographic profile of the reference samples of Hoodia gordonii used above & is characteristic of Hoodia gordonii aerial part.**

Authorized by: Sidney Sudberg, Director, Alkemists Pharmaceuticals

Report Date: 3/22/2007

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