

Certificate Issued To:
Millennium Health Supplements
(Cda) Inc.
38 A King St. E.
Bowmanville, ON L1C 1N2
Canada

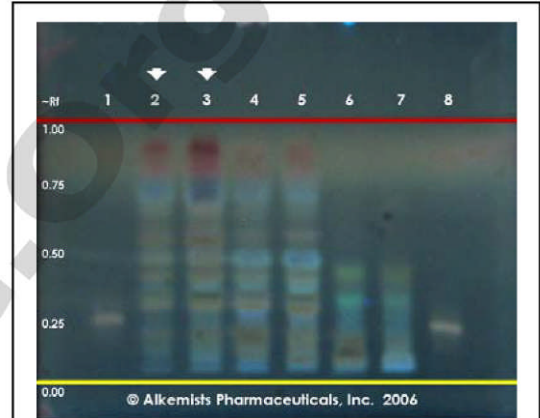
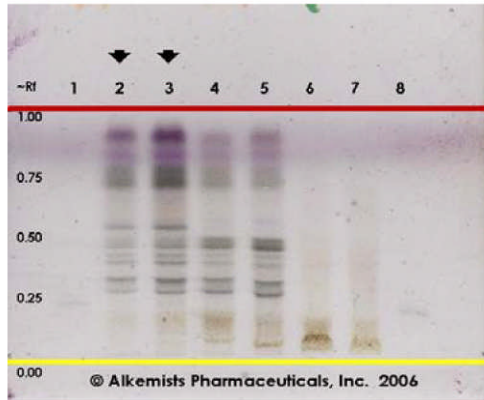


Work performed at:
Alkemists Pharmaceuticals
1260 Logan Ave B3
Costa Mesa, CA 92626
714-754-HERB (4372)
714-668-9972 (FAX)
E-mail: info@alkemist.com
Web Site: www.alkemist.com

Certificate of Analysis 1 of 3: Hoodia (6902 Exp JL 2009)
High Performance Thin-Layer Chromatography with Photo-Documentation

1

2



Company Name: Millennium Health Supplements (Cda) Inc.
Title: Hoodia Hoodia
Plant Part: aerial part
Sample Received: 7/31/2006
Sample Description: ~24g in a sealed white labeled bottle
Form of Botanical: crude plant powder
Appearance: 60 capsules
Source: N/A
Lot #: (6902 Exp JL 2009) → Lanes 2(2µl), 3(4µl)
Sample #: AU21206MHS
Latin Name: Hoodia gordonii (Masson) Sweet ex Decne
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: 0.3 g + 3 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 @ 60mm. Lanes 2, 3 are the test sample Hoodia Hoodia (6902 Exp JL 2009). 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 (6902 Exp JL 2009).**

Authorized by: Sidney Sudberg, Director, Alkemists Pharmaceuticals

Report Date: 8/8/2006

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