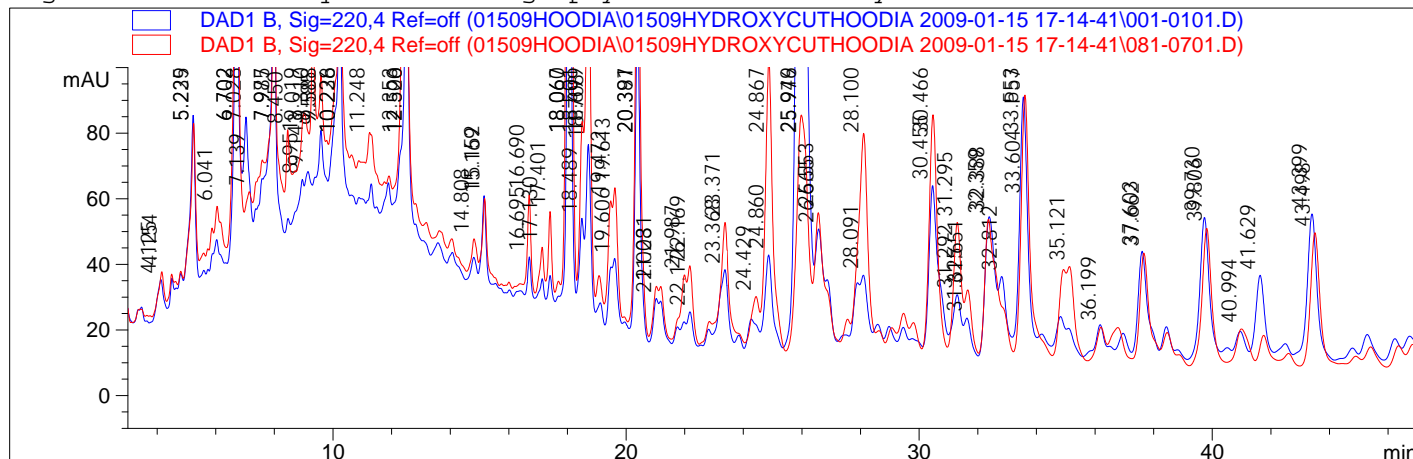




****CERTIFICATE OF ANALYSIS 1 of 3****

Fingerprint analysis of Hoodia gordonii for identity & purity

High Performance Liquid Chromatography with Diode Array Detection



- 1- **Chromatogram of Reference Material:** Hoodia gordonii aerial parts - Voucher specimen from South Africa, Grid:3320CA - Ernst van Jaarsveld #19891, AP # AU29006TA2
- 2- **Chromatogram of Test Sample:** Hoodia Gordonii powder - Lot #1/15/2009 AP #AU01509NBL - Sample received on 01/15/2009

Semi - Quantitative Analysis:

Ret. Time Compound Name w/w %

 33.60 P57 0.31 "w/w %" means mg P57 per 100mg Hoodia powder

Chromatographic Conditions:

References : I.Khan et al., Journal of AOAC Int'l, Vol 89, No 3, p 606, 2006
 Instrument : LC1200 Mobile Phase C: Water + 0.025% TFA
 Method : Hoodia_AOAC2.M Mobile Phase D: ACN + 0.025% TFA
 Data : 01509Hoodia Gradient:Time %C %D
 HPLC Column : Gemini 5µ C18 150 X 4.6mm t=0 85% 15
 Flow Rate : 1.0 mL/min t=15min 55 45
 Injection : 25 µL t=50min 30 70
 Column Temp : 35° C t=55min 10 90
 UV Detection : 220nm

Sample Preparation: weigh 250mg of Hoodia and add 5ml of MeOH, sonicate & heat @ 55°C for 1 hr. Filter through ptfe membrane into hplc vial for analysis.

Conclusion: Chromatogram #2 (test sample) is consistent with the expected fingerprint for Hoodia gordonii (as seen in chromatogram #1 of Reference Material). Analyte P57 which is used as the marker compound to assess identity and quality of Hoodia gordonii can be detected.

Note: Because of known co-elution between P57 analyte and other related steroidal glycosides, the amount of P57 in the test sample can only be estimated (actual value will be lower than reported value).

Analysis Date: 1/15/2009

Analyzed by C.Ventre, PhD

Authorized by S.Sudberg, Director

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