

Report issued to:  
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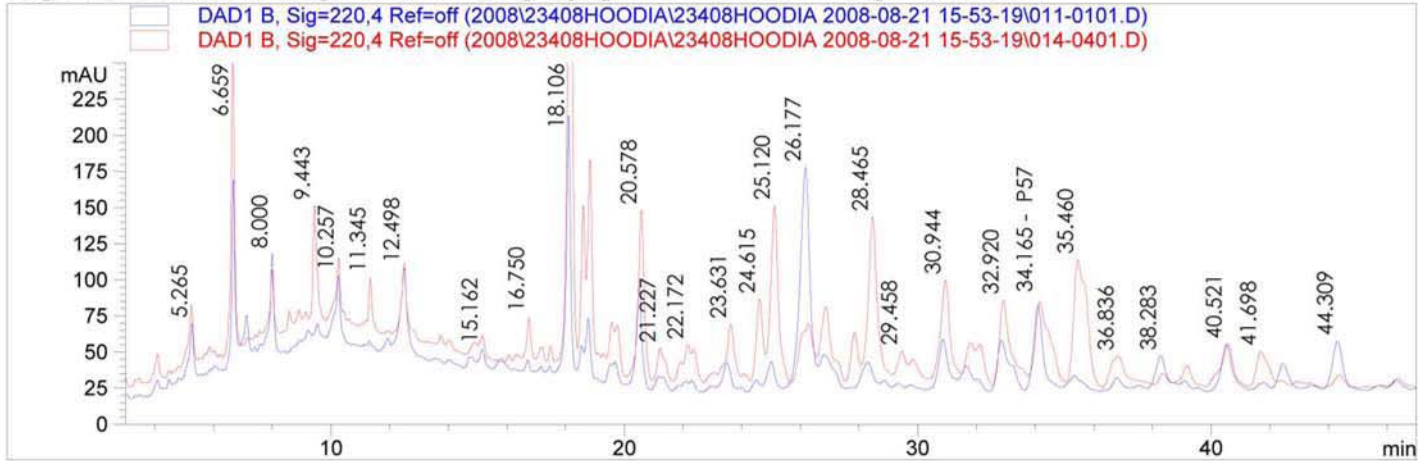


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**\*\*CERTIFICATE OF ANALYSIS 1 of 3\*\***

**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 plant powder - Lot #BFS070807 - AP #AU22508MED - Sample received on 8/03/10

Semi - Quantitative Analysis:

Ret. Time	Compound Name	w/w %	w/w means %
34.16	P57	0.30	means mg P57 per 100mg Hoodia

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	: 23408Hoodia	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 @ 55-60° C for 1 hr. Filter through ptfe membrane into into hplc vial for analysis.

Conclusion: Chromatogram #2 (test sample) shows all the peaks characteristics of 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: The peak of P57 analyte could not be fully resolved in the test sample chromatogram (evidence of co-elution with other related steroidal glycosides). Therefore the amount of P57 in the test sample can only be estimated (actual value will be lower than reported).

Analysis Date: 3/21/2010

Analyzed by C.Ventre, PhD

Authorized by S.Sudberg, Director

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