

**In Vitro Skin Diffusion Study of Pure Forskolin Versus a Forskolin-
Containing Plectranthus Barbatus Root Extract**

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S1. Certificate of analysis of *Plectranthus barbatus* extract.

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CERTIFICATE OF ANALYSIS
Coleus Forskohii extract 20%
Lot #C40360

Description:		Brown powder with characteristic odor
Identification:		By HPLC: Complies
Loss on drying:	3.8%	(Limit: Not more than 5.0%)
Solubility:		
-water solubles	12.9%	(Limit: Not less than 10%)
-alcohol solubles	45.41%	(Limit: Not less than 40.0%)
Ash Content:	18.88%	(Limit: Not more than 30.0%)
Heavy Metals:	10.0 ppm	(Limit: Not more than 20ppm)
Arsenic:	0.6 ppm	(Limit: Not more than 1ppm)
Lead:	1.2 ppm	(Limit: Not more than 10ppm)
Tapped bulk density:	0.71 g/ml	60-80 Mesh(Limit: Not more than 0.50g/ml and 0.90g/ml)
Loose bulk density:	0.56 g/ml	(Limit: Between 0.30g/ml and 0.80g/ml)
Sieve Test: Passes through)		
-20 mesh	100%	(Limit: Not less than 100%)
-40 mesh	95.3%	(Limit: Not less than 75.00%)
-80 mesh	76.47%	(Limit: Not less than 50%)
Assay:		
-Content of Forskohlin by HPLC	20.56%	(Limit: Not less than 20% and not more than 22.0% on dried basis)
Microbiological Profile:		
Total Microbial Count	Less than 100 cfu/g	
Mold and Yeast	Less than 10 cfu/g	
E.Coli	Absent	
Salmonella	Absent	
Staphylococcus aureus	Absent	
Pseudomonas aeruginosa	Absent	
Coliforms	<=3/g	
Country of Origin:	India	

Manufacturing Date: February 2004

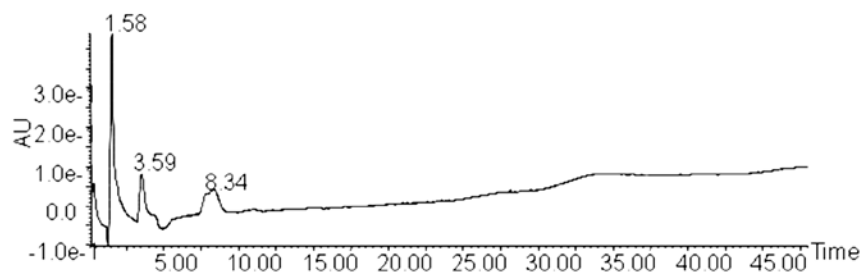
Expiration Date: January 2009

This Certificate of Analysis has been created and approved electronically in lieu of actual signature.
Disclaimer:

The data provided here has been generated to the best of our knowledge and provided as a guide for your consideration & verification

S2. Chromatograms of (a) pure **1** in CH₃CN (10 mg/mL, 20 mL injection) and (b) *P. barbatus* extract in CH₃CN (10 mg/mL, 20 mL injection) scanned with UV wavelength 200-300 nm with a photodiode array detector.

(a) Pure forskolin in CH₃CN (10 μg/mL)



(b) *P. barbatus* extract in CH₃CN (10 μg/mL)

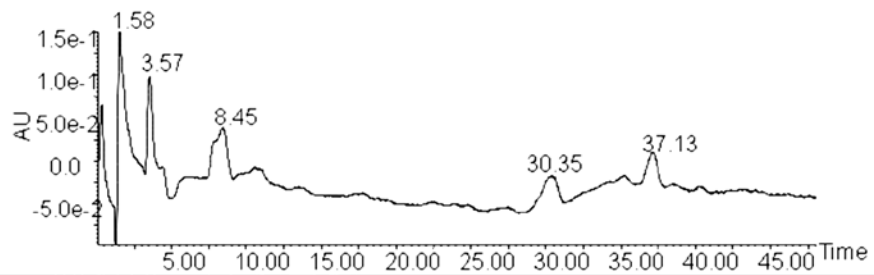


Figure S2.