Int'l Tel/Fax Code : 00 91 22 Tel.: 4082 8100 \* 22 66 3150 Fax: 4082 8181 \* 2202 4657

## G. AMPHRAY LABORATORIES

Sambava Chambers, 4<sup>th</sup> Floor, Sir P. M. Road, Mumbai – 400 001, INDIA.

E-mail: info@amphray.com

Web: www.amphray.com

## **CERTIFICATE OF ANALYSIS**

Product : SIMVASTATIN EP [COS Material] A. R. No : FP 288/2004

Batch No. : SV288/12/2004 Date of receipt : 20.12.2004

Date of Mfg. : December, 2004. Date Analysis : 20.12.2004

Date of Expiry : November, 2007. Quantity : 50.00 KGS

## **RESULTS OF ANALYSIS**

TEST	RESULT	
		SPECIFICATION
Description	A white crystalline powder.	A white or almost white crystalline powder.
Solubility	Practically insoluble in water, very	Practically insoluble in water, very soluble
	soluble in methylene chloride, freely	in methylene chloride, freely soluble in
	soluble in alcohol.	alcohol.
Identification		
A. Specific Optical	Complies.	Complies for test of specific optical
Rotation	Complies.	rotation.
B. Infrared Absorption		IR spectra concordant with spectrum
		obtained with Simvastatin CRS.
Appearance of solution	1 % solution in methanol is clear and not	1 % solution in methanol is clear and not
	more intensely colour than BY <sub>7</sub> standard.	more intensely colour than BY <sub>7</sub> standard.
Specific Optical Rotation	+ 291 °	From + 285 ° to 300 ° on dry basis.
Heavy Metal	< 20 ppm	Maximum 20 ppm
Loss on Drying ( at 60 ° C for 3	0.23 %	Not more than 0.5 %
Hrs. ) under vacuum		
Sulphated Ash	0.01 %	Not more than 0.1 %
Related Substances (By HPLC)		
A. Hydroxy Acid	0.10 %	Not more than 0.4 %
B. Acetate Ester	0.19 %	Not more than 0.4 %
C. AnhydroSimvastatin	NIL	Not more than 0.4 %
D. Dimer	0.05 %	Not more than 0.4 %
E. Lovastatin & F.	0.18 %	Not more than 1.0 %
Epilovastatin	0.43 %	Not more than 1.0 %
Sum of all the area of all peaks		
apart from principle peak and		
peak due to Lovastatin &		
Epilovastatin.		
Assay of Simvastatin, C25H38O5	99.10 %	Contains not less than 97.0 % and not more
		than 102.0 % of Simvastatin, C25H38O5
Residual Solvents		As per ICH Guideline.
A. Methanol	62 ppm	3000 ppm
B. THF	70 ppm	720 ppm
C. Hexane	25 ppm	290 ppm
D. Toluene	NIL	890 ppm
Particle Size		As per In-house specification
A. ≤ 10 %	4.5 μm	Not more than 5 μm
B. ≥ 90 %	18.5 μm	Not more than 20 μm
BHT Content (By HPLC)	0.007 %	Between 0.005 % & 0.015 %

REMARK: THE ABOVE SAMPLE COMPLIES AS PER THE SPECIFICATION OF E.P. 5.0

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**AUTHORISED SIGNATORY**