VIRCHOW LABORATORIES LIMITED

FP/MA/009/1

CERTIFICATE OF ANALYSIS

Product	:	Sulfamethoxazole Ph.Eur	A.R.No.	:	SMX/0955/25
Batch No.	:	09550525	In-House Batch No.	:	May/SMX/186
Date of Mfg	:	May 2025	Sampled by	:	A.Chandar
Retest Date	:	Apr 2030	Date of Analysis.	:	31.05.2025
Batch Quantity	:	40 x 25 Kg = 1000Kg			

S.No.	TESTS	OBSERVATIONS	SPECIFICATIONS
01	Appearance	White crystalline powder	A White or almost white Crystalline Powder
02	Solubility	Complies	As per Ph.Eur
03	Identification		
	a) Melting Point:	170°C	169°C – 172°C
	b) IR	Positive	The infrared absorption spectrum of sample is concordant with the spectrum of Sulfamethoxazole CRS
	c) TLC	Complies	As per Ph.Eur
	d) Chemical Test	Complies	Should give the positive reactions of primary aromatic amines
04	Appearance of Solution		
	a) Clarity of Solution	1.1 NTU	Not more than 3.0 NTU
	b) Colour of Solution	Complies	Not more intensely coloured than Reference solutions Y_5, BY_5 or GY_5
05	Acidity	0.18 ml	Not more than 0.30 ml of 0.1M sodium hydroxide solution
06	Related substances by HPLC		
	a) Impurity A (Acetyl SMX)	Below Disregard Limit*	Not more than 0.100%
	b) Impurity B (Sulfanilyl SMX)	0.066%	Not more than 0.100%
	c) Impurity C (Isoxazoline)	Below Disregard Limit*	Not more than 0.100%
	d) Impurity D (Sulfanilic Acid)	Below Disregard Limit*	Not more than 0.100%
	e) Impurity E (Sulfanilamide)	Below Disregard Limit*	Not more than 0.100%
	f) Impurity F (Isomeric SMX)	Below Disregard Limit*	Not more than 0.100%
	g) Any other impurity		
	1) Unknown Impurity – I	0.035%	Not more than 0.100%
	2) Unknown Impurity – II	Below Disregard Limit*	Not more than 0.100%
	h) Total Impurity	0.101%	Not more than 0.300%
07	Loss on Drying	0.29% w/w	Maximum 0.50% w/w
08	Sulphated ash	0.04% w/w	Maximum 0.10% w/w
09	Assay	100.5% w/w	Not less than 99.0 % and not more than 101.0 %, calculated with reference to the dried substance
10	Additional tests:		
	i) Sieve test	99.9%<90 microns	-------
	ii) Bulk Density	-------	-------
	iii) Related substances by TLC	Less. than 0.5%	Not more than 0.5% each. (As Per Ph.Eur.4)

* Below Disregard limit = 0.025%

Remarks : The Sample Complies as per Ph.EurII specification No. FP/SP/009.

Date of Release : 01.06.2025

Analyzed by : (Sr.Chemist) 01/06/25

Checked by: (Instrumentation In-Charge) 01/06/25

Approved by: (Sr.Q.C.Manager) 02/06/25

We, Virchow Laboratories Limited, as a manufacturer of Sulfamethoxazole here by certify that this batch has been produced by us as per the manufacturing process described in Certificate of Suitability No. R1-CEP 1999-172- Rev 02 and in full compliance with the GMP requirements of the local regulatory authority: Drug Control Administration, Government of Telangana State. GMP certificate No.165712/TS/2025, valid upto 10/02/2028, has been issued by the Drugs Control Administration after inspection as per WHO guidelines.

Q.A.Manager

02/06/25

Regd.Off. Plot No.4, S.V.Co-op.Industrial Estate, IDA. Jeedimetla, Hyderabad-500 055, Telangana, INDIA.
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Web: www.virchows.com, Drug Licence: 57/HD/AP/96/B/R; GSTIN: 36AAACV7245P1ZB, CIN: U24232TG1982PLC003368