

## **CERTIFICATE OF ANALYSIS**

PRODUCT	METFORMIN HYDROCHLORIDE		
BATCH NO.	A-22612307036	GROSS WEIGHT	27.0Kg/Drum
BATCH QUANTITY	2000KGS	NET WEIGHT	25.0Kg/Drum
MANUFACTURE DATE	July 12, 2023	RETEST DATE	Jun. 2026
ANALYSIS DATE	July 13, 2023	REPORT DATE	July 16, 2023
PHARMACOPOEIA		EP11.0	1
	Analytical	results	
ltems	Specifica	ations	Results
Appearance	White or almost white crystals		white crystals
Identification	B: IR-spectrum: Consistent with the spectrum of metformin- hydrochloride CRS. (2.2.24)		Complies
	E: reaction of chlorides: It gives reaction of chlorides. (2.3.1)		Complies
Appearance of solution	Clear(2.2.1) and colorless(2.2.2 Method II)		clear and colorless
Related substances (2.2.29)	Cyanoguanidine(imp.A) ≤0.02%		0.003%
	Any other impurity≤0.05%		0.004%
	Total impurities ≤0.2%		0.02%
	Impurity F≤0.05%		0.002%
NDMA	≤0.03ppm		<0.005ppm
Loss on drying	≤0.5% (2.2.32)		0.10%
Sulphated ash	≤0.1% (2.4.14)		0.03%
Residual solvents	Methanol ≤3000ppm		407ppm
Assay% on dry basis	98.5-101% (2.2.20)		99.90%
Particle Size	D90≤500 µm	いた時間化工有限	195µm
Conclusion	The commodity meets the standard of EP11.0.(R1-CEP 2008-043-Rev 07)		
Inspector:	Carlifor Wu	Verifier:	Jack He