HETERO DRUGS LIMITED (UNIT-I)
Survey.No's. 213,214 & 255, Bonthapally Village RUGS
Gummadidala Mandal, Sangareddy District-502313, Telangana,
Telephone: +91-9704432102 / 9704432103 Jupilo



## **CERTIFICATE OF ANALYSIS**

Product: Amlodipine Besilate  Batch No. AL25080103		Reference	Ph.Eur.
Analytical Report No.	HD01FP25006295 HD01FP25006312	Batch Quantity	501.19 Kg
Date Of Analysis	17-08-2025	Date of manufacture	28-07-2025
Storage condition	Store at 25°C (Excursions permitted between 15°C and 30°C)	Retest Date	27-07-2030
Reference STP No.	AL-013-00 AL-007-01	Status	Initial Certification
S. No. TEST RE		RESULT	SPECIFICATION
1 \$ Appearance		ler. White	e or almost White Powder.

S. No.	TEST	RESULT	SPECIFICATION
1	\$ Appearance (Ref: Visual inspection)	White Powder.	White or almost White Powder.
2	Solubility (Ref: Visual inspection)		
2.1	Solubility	Complies	Freely soluble in methanol, sparingly soluble in anhydrous ethanol, slightly soluble in water and in 2-propanol.
3	Identification by		
3.1	\$ a) IR (Ref: Ph.Eur.<2.2.24>)	Matches with standard	The infra-red absorption spectrum of the finely ground sample in mineral oil (liquid paraffin) dispersion should exhibit maxima only at the same wave numbers as that of a similar preparation of Amlodipine Besilate working standard.
3.2	\$ b) HPLC (Ref: Ph.Eur.<2.2.29>)	Matches with standard in the Assay by HPLC test	The retention time of the major peak in the chromatogram of the Assay preparation-1 should corresponds to that of the standard solution obtained as directed in the Assay on anhydrous basis by HPLC.
4	Optical Rotation (Ref: Ph.Eur.<2.2.7>)	0.002 °	Should be between (-) 0.10° and (+) 0.10°
5	\$ Related Substances by HPLC (Ref:Ph.Eur.<2.2.29>)	de la Constantina del Constantina de la Constantina del Constantina de la Constantin	
5.1	3-Ethyl 5-methyl (4RS)-4-(2-chlorophenyl)-2-[[2-(1,3-dioxo-1,3-dihydro-2H-Isoind ol-2-yl)ethoxy]methyl]-6-methyl-1,4-dihydropyridine-3,5-dicarbo xylate (Impurity-A*)	Not Detected	Not more than 0.10%
5.2	3-Ethyl 5-methyl 2-[(2-aminoethoxy)methyl]-4-(2-chloro phenyl)-6-methylpyridine-3,5-dic	0.04 %	Not more than 0.20%
5,3	arboxylate (Impurity-D*) Diethyl(4RS)-2-[(2-aminoethoxy )methyl]-4-(2-chloro	Not Detected	Not more than 0.15%

Remarks: APPROVED (Sample Conforms to above Specification) Comments: \* In-House specifications

Prepared By	Reviewed By	Approved By
Gopal.Ch	Satish Kumar.A	LAXMI NARASIMHA RAO.V
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## CERTIFICATE OF ANALYSIS

Product	: Amlodipine Bes	ilate					
Batch No.		Reference			Ph.Eur.		
			HD01FP25006295 HD01FP25006312 17-08-2025		tity	501.19 Kg 28-07-2025	
		17-08-2025			ufacture		
		Store at 25°C ( permitted betw 30°C)		Retest Date		27-07-2030	
				Status		Initial Certification	
	idine-3,5-dica -E)	thyl-1,4-dihydropyr irboxylate(Impurity					
5.4	l}-4-(2-chloro phenyl)-6-me	minoethoxy)methy thyl-1,4-dihydropyr rboxylate(Impurity	Not Detected		1 - 8	han 0.15%	
5.5	Any unspecif	led impurity	Below 0.05%			han 0.10%	
5.6	*Total impurit		0.04 %	The second secon		than 0.50%	
6	\$ Water conte	C 01.00-01 121.0	0.21 % w/w		1	than 0.5% w/w	
7	Sulfated ash (Ref:Ph.Eur.<2.4.14>)		0.04 %w/w		Not more than 0.2 % w/w		
8	\$ Assay on anhydrous basis by HPLC (by using Assay of the standard) (Ref: Ph.Eur.<2.2.29>)		101.9 %w/w		Not less than 97.0 % w/w and not more than 102.0 % w/w		
9	Content of M	ent of Methyl benzene Not Detected honate by HPLC (Ref:			Not more than 80 ppm		
10	Residual solv	vents by GC (Ref:					
10.1	Methanol		Below QL (QL=60 ppm)		Not more than 300 ppm		
10,2	Ethyl acetate		44 ppm			than 500 ppm	
11	Besilate ion of titration (Ref:		27.8 % w/w		Should be w/w	between 27.0% w/w and 28.5%	
12		analysis (Ref :	O CAMPANIA DE LA COMPANIA DEL COMPANIA DE LA COMPANIA DEL COMPANIA DE LA COMPANIA DEL COMPANIA DE LA COMPANIA DE LA COMPANIA DE LA COMPANIA DEL COMPANIA DE LA COMPANIA DEL				
12.1	d (0.10)	And Andrew Make Congress of the Congress of th	1.9 µm			less than 10 µm	
12.2	d (0.50)		6 µm	The state of the s		less than 25 μm	
12.3	d (0.90)	The second secon	18 µm	A STATE OF THE STA	Should be	less than 100 µm	

Remarks: APPROVED (Sample Conforms to above Specification)

Comments: \* In-House specifications

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