

# CAPTOPRIL

CAS NO.: 62571-86-2

SPECIFICATION STANDARD: USP27

TEST ITEMS	SPECIFICATIONS	RESULTS
1 CHARACTERISTICS	A WHITE OR ALMOST WHITE CRYSTALLING POWDER	PASS
2 IDENTIFICATION	POSITIVE	POSITIVE
A MELTING POINT	105-108°C	106-107°C
B INFRARED ABSORPTION SPECTROPHOTOMETRY	COMPARES WITH STANDARD	PASS
C THIN-LAYER CHROMATOGRAPHY	COMPARES WITH STANDARD	PASS
D DISSOLVE ABOUT 20MG IN 2ML OF WATER,ADD 0.5ML OF 0.05M IODINE	THE COLOUR IS DISCHARGED IMMEDIATELY	PASS
3 APPEARANCE OF SOLUTION(0.5G IN 25ML CARBON DIOXIDE FREE WATER)	CLEAR AND COLOURLESS	PASS
4 PH OF SOLUTION	2.0 TO 2.6	2.2
5 SPECIFIC OPTICAL ROTATION( IN ETHANOL)	-125° TO -134°	-129.7°
6 ORGANIC VOLATILE IMPURITIES	MEET THE REQUIREMENTS	PASS
7 RELATED SUBSTANCE		
7.1 INDIVIDUAL IMPURITY(CAPTOPRIL-DISULPHIDE)	NOT MORE THAN 0.5%	0.25%
7.2 3-ACETHYLTHIO-2-METHYL PROPANOIC ACID	NOT MORE THAN 0.1%	PASS
7.3 ANY UNKNOWN IMPURITY	NOT MORE THAN 0.2%	PASS
7.4 TOTAL IMPURITIES	NOT MORE THAN 0.5%	0.35%
8 HEAVY METALS	NOT MORE THAN 20PPM	<20PPM
9 LOSS ON DRYING	NOT MORE THAN 1.0%	0.09%
10 SULPHATED ASH	NOT MORE THAN 0.2%	0.06%
11 ASSAY	98.0%-101.5%	99.45%
STORAGE	IN AN AIRTIGHT CONTAINER	

CONCLUSION: THIS BATCH OF CAPTOPRIL IS COMPLIES WITH THE usp27.