

RESULTS ANTI-HYPERTENSIVE TABLETS

CATEGORIES AND BRANDS	PARAMETERS TESTED*								MODE OF ACTION	
	Uniformity of Weight Limit : Percentage Deviation NMT 10%	Disintegration Limit : NMT 15 minutes	Assay Limit: For A : 92.5% to 107.5%; For B to E : 90% to 110%		Uniformity of Contents Limit: 85% to 115%	Dissolution Limit: NLT 80%		Conclusion		
(A) ATENOLOL (25 mg) [IP 1996]									Acts directly on the heart muscles	
Atenova	1.24	5 min 18 sec	100.03	97.11		N.T.		C		
Hipres	2.10	1 min 24 sec	93.08	99.33		N.T.		C		
Betacard	1.88	5 min 18 sec	93.45	95.11		N.T.		C		
Atepark	1.69	1 min 24 sec	95.82	98.60		N.T.		C		
Tenormin	1.46	1 min 09 sec	100.26	100.92		N.T.		C		
Tensicard	1.05	39 sec	98.44	93.87		N.T.		C		
Atenex	1.30	29 sec	102.57	98.69		N.T.		C		
Atecard	2.13	5 min 19 sec	97.78	99.58		N.T.		C		
(B) ENALAPRIL MALEATE (2.5 mg) [IP 1996]									Acts by interfering in Renin Angiotension system	
Envas	1.73	7 min 06 sec	104.55	104.41		N.T.		C		
Enam	1.95	5 min 23 sec	101.70	106.27		N.T.		C		
Enapril	1.98	42 sec	95.76	90.67		N.T.		C		
Enace	1.82	2 min 04 sec	104.57	99.86		N.T.		C		
(C) LISINAPRIL (2.5 mg) [USP 27]									Acts by interfering in Renin Angiotension system	
Listril	1.94	4 min 33 sec	104.26	110.58		92.21		C		
Lipril	1.03	4 min 48 sec	99.84	90.10		99.37		C		
Cipril	1.42	3 min 21 sec	103.15	91.16		92.58		C		
Zestril	2.03	1 min	105.33	100.63		102.55		C		
(D.) ENALAPRIL MALEATE (10 mg) + HYDROCHLOROTHIAZIDE (25 mg) [USP 27]			% Ena	% Ht	% Ena	% Ht	For Ena NLT 80%	For Ht NLT 60%		Enalapril Maleate acts by inhibiting ACE reduce the AT-II level & aldosterone Hydrochlorothiazide also eliminates the volume factor commonly occurring with long-term use of vasodilators
Normace-D	4.24	2 min 23 sec	93.24	96.86	103.51	100.45	94.29	94.12	C	
Enapril-HT	2.11	2 min 15 sec	102.72	92.7	101.15	103.96	89.75	80.86	C	
Enace-D	1.84	5 min 23 sec	108.8	94.56	107.63	102.73	99.40	72.79	C	
(D.) ENALAPRIL MALEATE (5 mg) + HYDROCHLOROTHIAZIDE (12.5 mg) [USP 27]										Beta blocker and diuretics exert additive anti-hypertensive action
Envas H	3.16	2 min 37 sec	103.57	99.3	104.27	102.52	98.19	101.34	C	
(E) ATENOLOL (50 mg) [BP]** + CHLORTHALIDONE (12.5 mg) Tablets			% At	% Chlo	% At	% Chlo	% At	% Chlo		
Tenoric - 50	1.46	4 min 32 sec	98.94	99.56	97.73	96.04	86.03	87.00	C	
Tenoclor - 50	0.72	54 sec	99.38	97.98	99.54	97.89	91.35	74.84	C	
Atecard-D	3.79	4 min 57 sec	96.63	97.13	96.82	92.42	82.32	31.74	DNC	

Key
 NLT = Not less Than
 NMT = Not more than
 NT = Not Tested
 C = Complies
 DNC = Does not comply

Rating and Ranking

Our readers know our method of testing and ranking. We give ranks to the products tested based on their scores against their performances on various parameters and recommend the 'best buys'. In the case of anti-hypertensive tablets, we have not rated and ranked the products because any brand within the permissible limit of 90 to 110 per cent is considered to have passed the test. All brands fall within this limit. It also **does not signify** that a brand getting 91 per cent is less effective and a brand with 110 per cent is more effective.

* All brands were also tested for identification. The retention time limit of major peak is same for standard and sample. For Atenolol, identification limit is concordant with reference spectrum. All brands comply with this requirement.
 ** Tested as per US Pharmacopia.