

Supplementary Materials: Synergistic effect of acetazolamide-hydroxypropyl β cyclodextrin in timolol liposomes for decreasing and prolonging the intra-ocular pressure levels

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Table S1. Stability study realized for three months at 4 °C. Mean \pm SD.

	0 months	1 month				3 months
		7 days	14 days	21 days	30 days	
d_H (nm)	200.6 \pm 1.6	198.6 \pm 2.10	197.1 \pm 1.93	194.6 \pm 2.72	193.2 \pm 1.95	194.3 \pm 2.52
PdI	0.13 \pm 0.04	0.15 \pm 0.03	0.16 \pm 0.04	0.14 \pm 0.02	0.17 \pm 0.03	0.17 \pm 0.02
ζ (mV)	19.5 \pm 0.3	19.9 \pm 0.4	19.6 \pm 0.3	20.1 \pm 0.3	20.1 \pm 0.4	21.1 \pm 0.2
EE TM (%)	82.1 \pm 1.32	82.0 \pm 1.37	82.1 \pm 1.41	81.8 \pm 2.34	80.1 \pm 2.01	80.4 \pm 1.78
EE Acz (%)	72.6 \pm 1.49	72.3 \pm 1.51	71.5 \pm 2.12	70.6 \pm 1.98	70.0 \pm 1.37	69.6 \pm 1.21

Table S2. Mean values of HP β CD concentrations and acetazolamide (Acz) concentration dissolved in the presence of Acz/HP β CD, Acz/HP β CD/Ch or Acz/HP β CD/Chems. These mean values (S_t) and their SD are plotted in Figure 1a. Bold values represents S_0 . Log (S_t-S_0) mean values and their SD are also tabulated for each formulation and they are plotted in Figure 1b.

HP β CD	Acz/HP β CD	Acz/HP β CD/Ch	Acz/HP β CD/Chems	Log(S_t-S_0) Acz/HP β CD	Log(S_t-S_0) Acz/HP β CD/Ch	Log(S_t-S_0) Acz/HP β CD/Chems
0	3.48 \pm 0.18	2.57 \pm 0.15	2.94 \pm 0.15	-	-	-
20	6.80 \pm 0.30	4.78 \pm 0.13	6.76 \pm 0.12	0.53 \pm 0.02	0.34 \pm 0.02	0.58 \pm 0.01
40	9.30 \pm 0.12	6.52 \pm 0.12	9.81 \pm 0.21	0.77 \pm 0.01	0.60 \pm 0.01	0.84 \pm 0.00
60	13.30 \pm 0.46	8.52 \pm 0.20	13.04 \pm 0.17	1.00 \pm 0.02	0.77 \pm 0.00	1.00 \pm 0.01
80	16.30 \pm 0.70	11.10 \pm 0.26	15.25 \pm 0.22	1.11 \pm 0.02	0.93 \pm 0.01	1.09 \pm 0.01
100	19.40 \pm 0.10	13.70 \pm 0.72	18.89 \pm 0.19	1.20 \pm 0.01	1.05 \pm 0.02	1.20 \pm 0.00