

Table 1: Composition of Various Formulations of Timolol Maleate

Formulation	Drug (% w/w)	Polymer	Solvent	Plasticizer	Enhancer
F1	0.8	HPMC 2 %	D. Water 100 ml	Propylene glycol 30 %	DMSO 3 %
F2	0.8	HPMC 3 %	"	"	"
F3	0.8	HPMC 1 %	"	"	"
F4	0.8	HPMC 2 %	"	Glycerine 30 %	B-cyclo dextrin 3 %
F5	0.8	HPMC 1 %	"	"	"
F6	0.8	HPMC : PVP (3 : 1)	"	Propylene glycol 40 %	DMSO 3 %
F7	0.8	HPMC : PVP (2 : 2)	"	"	"
F8	0.8	HPMC : PVP (1 : 3)	"	"	"
F9	0.8	HPMC : PVP (2 : 2)	"	Propylene glycol 30 %	Hyaluronidase 3 %
F10	0.8	HPMC : PVP (1 : 3)	"	"	"
F11	0.8	PVA 3 %	"	Propylene glycol 30 %	DMSO 3 %
F12	0.8	PVA 4 %	"	"	"
F13	0.8	PVA 2 %	"	"	"
F14	0.8	PVA 2 %	"	Glycerine 30 %	β -cyclodextrin 3 %
F15	0.8	PVA 3 %	"	"	"
F16	0.8	PVA : PVP (1 : 3)	"	Propylene glycol 40 %	DMSO 3 %
F17	0.8	PVA : PVP (2 : 3)	"	"	"
F18	0.8	PVA : PVP (3 : 1)	"	"	"
F19	0.8	PVA : PVP (3 : 2)	"	Propylene glycol 30 %	Hyaluronidase 3 %
F20	0.8	PVA : PVP (2 : 2)	"	"	"

Table 2: Phsico-Chemical Evaluation of Formulated Patches of Timolol Maleate

Film no	Weight (mg)	Thickness (mm)	Drug content (mg)	Tensile strength (kg/cm²)	Percent Moisture Uptake
F1	27.5 ± 1.5	0.09 ± 0.03	9.18	1.68	4.36
F2	28.3 ± 1.4	0.1 ± 0.02	9.23	1.82	4.24
F3	25.4 ± 1.3	0.08 ± 0.02	8.82	1.5	4.72
F4	28.6 ± 1.7	0.09 ± 0.03	8.9	1.7	4.19
F5	26.3 ± 1.3	0.08 ± 0.02	9.15	1.74	4.56
F6	32 ± 1.5	0.09 ± 0.03	8.88	1.6	3.43
F7	33.3 ± 1.4	0.11 ± 0.03	9.2	1.9	3.30
F8	29.9 ± 1.3	0.08 ± 0.03	8.9	1.8	3.67
F9	31.5 ± 1.5	0.12 ± 0.03	9.13	1.78	3.49
F10	32.6 ± 1.6	0.09 ± 0.02	9.28	1.94	3.37
F11	34 ± 1.7	0.13 ± 0.02	8.82	2.2	2.94
F12	36.4 ± 1.9	0.16 ± 0.03	8.94	2.28	2.74
F13	33.8 ± 1.7	0.12 ± 0.04	9.16	2.16	2.95
F14	32.2 ± 1.8	0.14 ± 0.03	9.18	2.24	3.10
F15	31.9 ± 1.9	0.12 ± 0.04	8.92	2.1	3.13
F16	35.8 ± 2.2	0.14 ± 0.03	9.12	2.48	2.65
F17	40.2 ± 2.5	0.18 ± 0.03	9.16	2.62	2.36
F18	38 ± 2.3	0.18 ± 0.03	9.2	2.8	2.5
F19	39.4 ± 2.4	0.19 ± 0.04	9.24	2.86	2.41
F20	36.3 ± 2.2	0.16 ± 0.03	8.86	2.32	2.61