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(54) FORMULATIONS FOR TREATING EYE DISORDERS

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(57) ABSTRACT

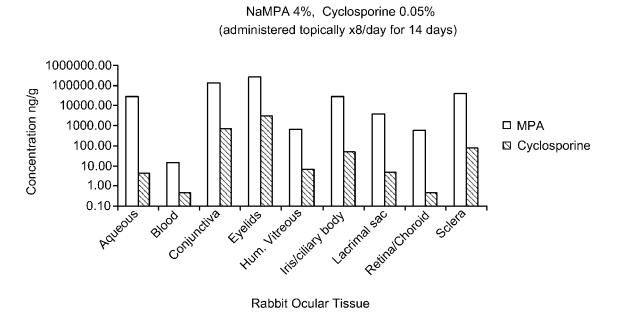
The present disclosure relates to ophthalmic solutions and methods of using the solutions to treat ocular disorders

(75) Inventors: Eddie CHONG, North Vancouver (CA); Clive BURGE, Brentwood

Bay (CA); Lee MIZZEN, Victoria (CA) Correspondence Address:

DECHERT LLP P.O. BOX 390460 MOUNTAIN VIEW, CA 94039-0460 (US)

- (73) Assignee: Aspreva International Ltd., Victoria (CA)
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NaMPA 4% & Cyclosporine 0.05% (administered x8/day for 14 days)				
Rabbit Ocular Tissue	Ratio MPA/Cyclosporine			
Eyelids	81.82			
Lacrimal sac	766.56			
Conjunctiva	189.09			
Sclera	549.53			
Aqueous	6062.11			
Iris/ciliary body	574.30			
Hum. Vitreous	101.31			
Retina/Choroid	1151.50			
Blood	29.40			

FIG. 2

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MPA Tissue Concentrations 1-Day Acute Studies							
Test Article	1% MPA sodium	1% MPA sodium + borate	1% MPA tromethamine	1% MPA morpholine			
Eye tissue	Calculated Concentration (µg/g)	Calculated Concentration (µg/g)	Calculated Concentration (µg/g)	Calculated Concentration (µg/g)			
Rabbit #	1517	1539	1527	1534			
Lacrimal Sac/Eyelid R+L	15.20	44.60	40.55	29.80			
Cornea R+L	20.10	20.35	14.48	17.55			
Conjunctiva R+L	34.50	19.85	6.59	6.42			
Sclera R+L	7.45	2.62	1.90	2.31			
Aqueous Humor R+L	3.11	2.80	1.13	4.08			
Iris/Ciliary R+L	2.16	0.87	0.42	0.61			
Retina-Choroid R+L	0.21	0.13	0.06	0.06			
Lens R+L	0.16	0.10	0.06	0.20			
Vitreous Humor R+L	0.05	0.03	0.01	0.01			

FIG. 3A

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MPA Tissue Concentrations 1-Day Acute Studies							
Test Article	2% MPA sodium	2% MPA sodium + borate	2% MPA tromethamine	2% MPA morpholine			
Eye tissue	Calculated Concentration (µg/g)	Calculated Concentration (µg/g)	Calculated Concentration (µg/g)	Calculated Concentration (µg/g)			
Rabbit #	1488	1456	1550	1522			
Lacrimal Sac/Eyelid R+L	23.90	53.15	107.50	34.35			
Cornea R+L	50.95	65.05	71.75	34.70			
Conjunctiva R+L	41.55	32.55	58.50	21.95			
Sclera R+L	11.10	4.93	12.55	7.90			
Aqueous Humor R+L	6.42	6.01	6.05	19.02			
Iris/Ciliary R+L	1.83	1.52	1.32	1.42			
Retina-Choroid R+L	0.31	0.17	0.24	0.18			
Lens R+L	0.23	0.12	0.14	0.10			
Vitreous Humor R+L	0.03	0.03	0.02	0.02			

FIG. 3B

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