

WHAT IS CLAIMED IS:

1. An ophthalmological composition for the treatment of glaucoma comprising from about 0.01% to about 0.050% w/v brimonidine and an effective amount of a second glaucoma drug, wherein w/v denotes weight by total volume of the composition.
2. The composition of claim 1, wherein the brimonidine is at a concentration from about 0.035% to about 0.050% w/v.
3. The composition of claim 1, wherein the second glaucoma drug is selected from the group consisting of a prostaglandin, a beta-blocker, a rho kinase inhibitor, and a carbonic anhydrase inhibitor.
4. The composition of claim 1, wherein the glaucoma drug is selected from the group consisting of latanoprost, bimatoprost, travaprost, tafluprost, netarsudil, carteolol, timoptic, timolol, betaloxol, levobunolol, metipranolol, brinzolamide, dorzolamide, acetazolamide, methazolamide and pharmaceutically acceptable salts thereof.
5. The composition of claim 1, wherein the second glaucoma drug is at a concentration from about 0.001% to about 1.0% w/v.
6. The composition of claim 3, wherein the second glaucoma drug is a prostaglandin at a concentration from about 0.001% to about 0.1% w/v or a rho kinase inhibitor at a concentration from about 0.01% to about 1.0% w/v or a beta-blocker at a concentration from about 0.1% to about 1.0% w/v or a carbonic anhydrase inhibitor at a concentration from about 0.5% to about 5% w/v.
7. The composition of claim 3, wherein the second glaucoma drug is a prostaglandin at a concentration from about 0.0015% to about 0.03% w/v, a rho kinase inhibitor at a concentration from about 0.01% to about 0.05% w/v, beta-blocker at a concentration from about 0.25% to

about 0.5% w/v or a carbonic anhydrase inhibitor at a concentration from about 1% to about 2% w/v.

8. The composition of claim 1, wherein brimonidine is at a concentration of about 0.050% w/v and the second glaucoma drug is latanoprost at a concentration of about 0.005% w/v.

9. The composition of claim 1, wherein brimonidine is at a concentration of about 0.050% w/v and the second glaucoma drug is bimatoprost at a concentration of about 0.05% w/v.

10. The composition of claim 1, wherein brimonidine is at a concentration of about 0.050% w/v and the second glaucoma drug is timolol at a concentration of about 0.5% w/v.

11. The composition of claim 1, wherein brimonidine is at a concentration of about 0.04% w/v and the second glaucoma drug is dorzolamide at a concentration of about 2% w/v.

12. The composition of claim 1, further comprising a nonionic surfactant, a viscosity enhancer, a buffer and optionally, sorbate.

13. The composition of claim 12, wherein the nonionic surfactant is a polysorbate at a concentration from about 1% to about 5% w/v.

14. A method of treating glaucoma comprising administering the composition of claim 1 to a subject in need thereof.

15. The method of claim 14, wherein the method further provides redness reduction.

16. The method of claim 14, wherein the method further provides eye whitening.

17. The method of claim 14, wherein the method further provides conjunctival swelling reduction, hyperemia reduction, eye whitening or a combination thereof.

18. An ophthalmological composition for the treatment of allergies comprising from about 0.005% to about 0.050% brimonidine and an effective amount of a histamine antagonist, wherein w/v denotes weight by total volume of the composition.

19. The composition of claim 18, wherein the brimonidine is at a concentration from about 0.025% to about 0.035% w/v.
20. The composition of claim 18, wherein the histamine antagonist is selected from the group consisting of naphazoline, antazoline, azelastine, carbinoxamine, cyproheptadine, emedastine, hydroxyzine, levocabastine, brompheniramine, chlorpheniramine, clemastine, diphenhydramine, ketotifen, loratadine, desloratadine, cetirizine, fexofenadine, olopatadine, acrivastine, ebastine, norastemizole, levocetirizine, mizolastine, pheniramine, pharmaceutically acceptable salts thereof and combinations thereof.
21. The composition of claim 18, wherein the histamine antagonist is at a concentration from about 0.025% to about 0.7% w/v.
22. The composition of claim 18, further comprising a nonionic surfactant, hydroxypropylmethyl cellulose, a buffer and optionally, sorbate.
23. The composition of claim 22, wherein the nonionic surfactant is a polysorbate at a concentration from about 1% to about 5% w/v.
24. A method of treating or preventing an allergic response comprising administering the composition of claim 16 to a subject in need thereof.
25. The method of claim 24, wherein the method further provides eye whitening.
26. The method of claim 24, wherein the method further provides selective vasoconstriction of smaller vessels, reduction of postcapillary venule leakage, reduction of inflammation from cytokines, leukotrienes or a combination thereof.
27. An ophthalmological composition for reducing of inflammation comprising from about 0.005% to about 0.050% w/v brimonidine and an effective amount of a nonsteroidal anti-inflammatory drug (NSAID), wherein w/v denotes weight by total volume of the composition.

28. The composition of claim 27, wherein the brimonidine is at a concentration from about 0.025% to about 0.035% w/v.
29. The composition of claim 27, wherein the NSAID is selected from the group consisting of ketorolac, aspirin, celecoxib, diflunisal, etodolac, ibuprofen, indomethacin, ketoprofen, nabumetone, naproxen, oxaprozin, salsalate, sulindac, tolmetin and pharmaceutically acceptable salts thereof and combinations thereof.
30. The composition of claim 29, wherein the NSAID is ketorolac.
31. The composition of claim 27, wherein the NSAID is at a concentration from about 0.02% to about 0.50% w/v.
32. The composition of claim 27, further comprising a nonionic surfactant, a viscosity enhancer, a buffer and optionally, sorbate.
33. The composition of claim 32, wherein the nonionic surfactant is a polysorbate at a concentration from about 1% to about 5% w/v.
34. A method of reducing inflammation comprising administering the composition of claim 25 to a subject in need thereof.
35. A composition for the treatment of glaucoma comprising:
about 0.001% w/v latanoprost or 0.05% w/v timolol;
about 0.050% w/v brimonidine;
about 2.5% w/v polysorbate;
about 1.2% w/v hydroxypropylmethyl cellulose;
about 5 millimolar boric acid; and
optionally, about 0.1% w/v sorbate,
wherein the composition has a pH of about 7.4.

36. A composition for the treatment of allergic conjunctivitis comprising:

about 0.0035% w/v ketotifen fumarate;

about 0.035% w/v brimonidine;

about 2.5% w/v polysorbate;

from about 0.1% to about 1.2% w/v hydroxypropylmethyl cellulose;

about 4 millimolar citrate buffer; and

optionally, about 0.1% w/v sorbate,

wherein the composition has a pH of about 6.5.