CLAIMS

1. A composition comprising:

a) 0.0010% w/v to 0.0050% w/v of polyquaternium-42 having a molecular weight of from 250 to 12,000 Daltons;
b) 0.06% w/v to 1.0% w/v of a borate, wherein the term “borate” means boric acid, salts of boric acid and other pharmaceutically acceptable borates, or combinations thereof;
c) 0.4% w/v to 1.5% w/v of a polyol or combination of polyols, wherein the term polyol refers to any compound having at least two -OH groups; and
d) an antimicrobial mixture comprising one or more nutrients, wherein the total nutrient concentration in the composition of the present invention comprises:
    i. a lactate concentration of from 2.0 mMol/L to 3.0 mMol/L of the total composition;
    ii. a citrate concentration of from 0.025 mMol/L to 0.050 mMol/L of the total composition;
    iii. a phosphate concentration of from 1.5 mMol/L to 2.5 mMol/L of the total composition; and
    iv. a glucose concentration of from 0.1 mMol/L to 0.4 mMol/L of the total composition.

2. The composition of claim 1 wherein the antimicrobial mixture further comprises one or more electrolytes, optionally wherein the total electrolyte concentration in the total composition comprises:

i. a potassium concentration of from about 24 mMol/L to about 28 mMol/L of the total composition;
ii. a sodium concentration of from about 5 mMol/L to about 10 mMol/L of the total composition;
iii. a magnesium concentration of from about 0.50 mMol/L to about 0.80 mMol/L of the total composition; and
iv. a chloride concentration of from about 23 mMol/L to about 28 mMol/L of the total composition.

3. The composition of any preceding claim wherein the antimicrobial mixture further comprises ascorbic acid at a concentration not exceeding 0.001 % w/v, optionally at from about 0.00002% w/v to about 0.0001% w/v, or optionally from about 0.00001% w/v to about 0.00002% w/v, of the total composition.

4. The composition of any preceding claim wherein the antimicrobial mixture further comprises glycine at a concentration not exceeding 0.0010 % w/v, optionally at from about 0.00001% w/v to about 0.0002% w/v, or optionally from about 0.00002% w/v to about 0.0001% w/v, of the total composition.

5. The composition of any preceding claim wherein the polyol is selected from the group consisting of sugars, sugar alcohols, sugar acids, uronic acids and mixtures thereof; optionally wherein the polyol is selected from the group consisting of sugars, sugar alcohols and sugar acids; optionally wherein the polyol is selected from polysorbate 80, mannitol, sorbitol, propylene glycol, polyethylene glycol, glycerin or mixtures thereof.

6. The composition of any preceding claim wherein the borate is selected from the group consisting of sodium borate, potassium borate, calcium borate, magnesium borate, manganese borate; and mixtures thereof.

7. The composition of any preceding claim further comprising tetrahydrozoline or a pharmaceutically acceptable salt thereof.

8. The composition of any preceding claim, wherein the composition is free of, or substantially free of zinc ions.

9. The composition of any preceding claim for use in a method of treating or preventing dry eye.

10. The composition of any preceding claim for use in a method of treating or preventing eye allergy.

11. The composition of any preceding claim for use in a method of treating or preventing minor eye irritations.