



Ophthalmic Preparations of Interest to Optometrists

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Editor's Note:

This paper is essentially a tabulated listing of nearly 200 ophthalmic preparations. It is too lengthy to publish in one issue of the CJO, so it will be presented in parts. The subject is tabulated in the following sections:

- Tear Supplements and Substitutes, Comfort Solutions.
- Vasoconstrictors, Decongestants, Astringents and Antihistamines.
- Topical Antibiotic, or other Antibacterial Preparations.
- Mydriatics / Cycloplegics or both.
- Ophthalmic Ointments.

- Enzymatic Cleaners, Proteases and Lipases.
- Thermal Disinfection and Rinsing of Soft Lenses, Storage Solutions.
- Chemical Cleaning and Disinfecting Solutions or Systems for Soft Lenses.
- Solutions Designed for Use With Hard Lenses.
- Solutions Designed for Use With Hard Gas-Permeable Lenses.
- Diagnostic Aids.
- Ocular Lubricants, Eyewashes, Irrigating Solutions, Cushioning Solutions or Ointments.
- Topical Anaesthetics.
- Hypertonic Solutions or Ointments.
- Drugs to Treat Glaucoma.

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Readers will also note that some preparations will appear under more than one of the above descriptive headings.

6. Enzymatic Cleaners, Proteases and Lipases

Product (Manufacturer or Distributor)	Viscosity Agent	Vasoconstrictor	Preservative	Buffer	Purpose or Other Ingredients
Alcon Enzymatic Cleaner (Alcon)					Used to clean soft lenses. Contains pancreatin, a mixture of enzymes including lipases, amylases and proteases.
B & L Soflens Cleaning Tablets (Bausch & Lomb)					For removing protein from soft lenses. Weekly cleaning. Papain, Prolase 300.
Bilosa-Clean Tablets (Union Optics)			thimerosal, disodium edetate	citric acid, sodium bicarbonate	Cleaning soft lenses. Lipid solvents.
Clean-O-Gel (Alcon)	polyethylene glycol		thimerosal 0.001%, disodium edetate 0.1%	phosphate, sodium borate	For removing lipids and protein from soft lenses weekly. Lipase surfactant, sucrose monolaurate, boric acid and mannitol.
Gonio-Gel (Herd and Charton)	methylcellulose 2.5% (4000 cps), propylene glycol		methylparaben, propylparaben		Lubricant and optical bond for use with a gonioscopic lens. Sodium chloride, purified water. Index of refraction 1.336.

7. Thermal Disinfection and Rinsing of Soft Lenses, Storage Solutions

Product (Manufacturer or Distributor)	Viscosity Agent	Vasoconstrictor	Preservative	Buffer	Purpose or Other Ingredients
Alcon Preserved Saline Thermal Disinfection and Rinsing Solution (Alcon)			thimerosal 0.001%, disodium edetate 0.1%	boric acid, sodium borate, phosphate buffer	Thermal disinfection and rinsing of soft lenses. Pluronic 127, detergent. Sodium chloride 0.7%. Isotonic.
Allergan Preserved Saline Solution (Allergan)			thimerosal 0.001%, disodium edetate 0.1%	sodium borate, boric acid, sodium hydroxide	For thermal disinfection and rinsing soft lenses. Sequestering agent and sodium chloride 0.85%.
Aquaflex Salt Tablets (Union Optics)					Thermal disinfection of soft lenses. Sodium chloride, 270 mg tablets.
B-H Soft Lens Buffered Salt Tablets (Barnes-Hind)			disodium edetate 0.2%	sodium bicarbonate, sodium phosphate, sodium citrate	Thermal disinfection and rinsing of soft lenses. Sodium chloride, chelating agents.
B-H Soft Lens Preserved Saline Solution (Barnes-Hind)			thimerosal 0.001%, disodium edetate 0.1%,	boric acid, sodium borate	For thermal disinfection, and storing of soft lenses. Sodium chloride. Isotonic. pH 7.0.
B-H Soft Lens Storage & Rinsing Solution (Barnes-Hind)			chlorhexidine gluconate 0.003%, thimerosal 0.002%, disodium edetate 0.1%	boric acid	Chemical disinfection, rinsing and storage of soft lenses. Conditioning agents and sodium chloride.
B & L No Thimerosal Saline Solution (Bausch & Lomb)			disodium edetate 0.025%, sorbic acid 0.1%	borate	For thermal disinfection, storing and rinsing soft lenses. Sodium chloride.
B & L Soflens Saline Cleaning Solution (Bausch & Lomb)			disodium edetate 2.5mg/ml (=0.25%), sorbic acid 1.5mg/ml (=0.15%)	borate	A saline rinsing, thermal disinfection and storage solution for soft lenses. Sodium chloride and surfactant. Isotonic.
B & L Soflens Saline Solution (Bausch & Lomb)			disodium edetate 2.5 mg/ml (=0.25%), thimerosal		For rinsing, thermal disinfection and storing of soft lenses. Sodium chloride.
Bilosa-Saline (Union Optics)			none		For rinsing and storing soft lenses. Sodium chloride in 10 ml sachets. Also available as a spray.
Boil-n-Soak (Alcon)			thimerosal 0.001%, disodium edetate 0.1%	boric acid, sodium borate	Preserved saline solution for thermal disinfection and for rinsing soft lenses. Sodium chloride 0.7%. Buffered, isotonic.
Flex-Care (Alcon)			thimerosal 0.001%, disodium edetate 0.1%, chlorhexidine gluconate 0.005%	boric acid, sodium borate, phosphate buffer	Chemical disinfecting solution used for rinsing and storing soft contact lenses. Sodium chloride. Isotonic. Tonicity about 289 mOsm.
Flexsol (Alcon)	povidone, polyoxyethylene glycol (Adsorbobase)		chlorhexidine digluconate 0.005%, disodium edetate 0.1%, thimerosal 0.001%	boric acid, sodium borate, phosphate buffer	Storing, chemical disinfecting and conditioning solution for soft contact lenses. Water soluble polymers and sodium chloride. Isotonic.
Hydrocare Sorbisal Saline Solution (Allergan)			sorbic acid 0.1%	buffers	For thermal disinfection, rinsing and storing soft lenses. Contains a calcium preventer and sodium chloride. Isotonic.
Hydrocare Special Saline Solution (Allergan)			thimerosal 0.001%, disodium edetate 0.01%	boric acid, sodium hydroxide	Thermal disinfection and calcium preventer saline for soft lenses. Sequestering agent and sodium hexametaphosphate. Isotonic.
Hydrosoak (Trans-Canada Contact Lens)			thimerosal 0.0025%, disodium edetate 0.1%, chlorhexidine gluconate 0.0025%		For storing and chemical disinfection of soft contact lenses. Isotonic.

Product (Manufacturer or Distributor)	Viscosity Agent	Vasoconstrictor	Preservative	Buffer	Purpose or Other Ingredients
Lensrins (AOCO) (Softcon)			thimerosal 0.001%, disodium edetate 0.1%	phosphate buffers	Preserved saline solution for thermal disinfection, rinsing and storing soft lenses. Sodium chloride 0.85%.
Normal Saline Salt Tablets (Prof. Supplies)					To make saline solution for rinsing, thermal disinfection and storing of soft lenses. Sodium chloride (200 tablets each 250 mg).
Normol (Alcon)			chlorhexidine gluconate 0.005%, disodium edetate 0.1%, thimerosal 0.001%	borate	Rinsing solution for soft lenses. Sodium chloride. Isotonic.
Nutra-Flow (CooperVision)			sorbic acid 0.1%, disodium edetate 0.1%	sodium borate 0.22%	To rinse and store soft lenses. Solution used with Pliacide to neutralize iodine when disinfecting soft lenses chemically. Contains potassium chloride.
Perma-Sol (CooperVision)			thimerosal 0.001%, sorbic acid 0.1%, disodium edetate 0.1%	sodium borate 0.2%	Saline solution for rinsing, storing and thermal disinfection of soft lenses. Sodium chloride 1%, potassium chloride.
Pliasol (CooperVision)			sorbic acid 0.1%, disodium edetate 0.1%	sodium borate 0.2%	Thermal disinfecting, rinsing and storing of soft lenses. Poloxamer 407, sodium chloride 0.6% and potassium chloride 0.2%.
Soft Mate PS Saline Solution (Barnes-Hind)			potassium sorbate 0.13%, edetate sodium 0.025%	boric acid, sodium borate	Rinsing, soaking and storing solution for soft lenses. Sodium chloride.
Soft Rinse (Prof. Supplies)			none		Saline solution for rinsing, thermal disinfection and storage of soft lenses. Sodium chloride (250 mg tablets). Also 135 mg tablets are available.
Solusal (Hydron Canada)			none		For rinsing, storing and thermal disinfection of soft lenses. Sodium chloride 0.90% w/v.
Unisol Preservative-Free Saline Solution (CooperVision)			none	boric acid 0.5%, sodium borate 0.05%	Rinsing, thermal disinfection and storage of soft lenses. Sodium chloride 0.7%. The same formulation is also in Unisol 4 Sterile Saline Solution.

8. Surfactant Cleaners for Soft Lenses.

Product (Manufacturer or Distributor)	Viscosity Agent	Vasoconstrictor	Preservative	Buffer	Purpose or Other Ingredients
B-H Cleaning Solution for Gas-Permeable Hard Contact Lenses (Barnes-Hind)	hydroxyethylcellulose		thimerosal 0.004%, disodium edetate 2%	trisamino	For cleaning rigid gas-permeable lenses. Nonionic surfactant.
B-H (Sterile) Soft Lens Cleaning Solution (Barnes-Hind)	hydroxyethylcellulose, octylphenoxy ethanol		thimerosal 0.004%, disodium edetate 0.2%	boric acid, sodium borate	Cleaning soft lenses. Nonionic surfactant (Igepal) and sodium chloride. pH 8.2. Isotonic.
B-H Soft Lens Weekly Cleaning Solution (Barnes-Hind)			thimerosal 0.001%, disodium edetate 0.1%		Cleaning soft lenses weekly. Nonionic amphoteric surfactants. Norfox, Miranol, Silicone. Isotonic. pH 8.0.
B & L Daily Cleaner (Bausch & Lomb)			thimerosal 0.04%, disodium edetate 0.2%		Daily cleaner for soft lenses. Surfactants.
Boston Lens Cleaner (Polymer Tech Corp)					Cleaning rigid gas-permeable and other hard lenses. Anionic, sulfate surfactant, sodium chloride.

Product (Manufacturer or Distributor)	Viscosity Agent	Vasoconstrictor	Preservative	Buffer	Purpose or Other Ingredients
Clean-O-Gel (Alcon)	polyethylene glycol		thimerosal 0.001%, disodium edetate 0.1%	phosphate, sodium borate	For removing lipids and protein from soft lenses weekly. Lipase surfactant, sucrose monolaurate, boric acid and mannitol.
Hydrocare Cleaning/ Disinfecting Solution (Allergan)			alkyl triethanol ammonium chloride, thimerosal 0.002%	buffers	Cleaning, disinfecting and storing soft lenses. Surfactants and a polymer vehicle. Isotonic.
Hydroclean (Trans-Canada Contact Lens)			thimerosal 0.0025%, disodium edetate 0.1%, chlorhexidine gluconate 0.0025%		Daily cleaner for soft lenses. Surfactants. Isotonic.
LC-65 Daily Contact Lens Cleaner (Allergan)	polysorbate 80		thimerosal 1:100,000 = (0.001%), disodium edetate 0.1%	sodium phosphate	Daily cleaner for hard, hydrogel and hard gas-permeable contact lenses. Amphoteric nonionic surfactant, (Miranol), stabilizers and sodium chloride.
Mira-Flow (CooperVision)			isopropyl alcohol 20%		Cleaning soft lenses. Miranol, amphoteric surfactant, Poloxamer 407.
Oxycare (Trans Canada)					Weekly cleaner for soft lenses and for hard gas-permeable lenses. Contains sodium percarbonate, no enzymes.
Pliagel Cleaning Solution (CooperVision)			sorbic acid 0.1%, trisodium edetate 0.5%		Daily cleaning of soft lenses. Nonionic surfactant, detergent, poloxamer 407 1.5%, potassium chloride and sodium chloride.
Polyclens (Alcon)	hydroxyethylcellulose, oxyethylene, octyphenol		thimerosal 0.004%, disodium edetate 0.1%	borate buffer, sodium chloride, sodium hydroxide	Daily cleaning of soft, hard and gas-permeable lenses. Surfactants, Tween 21 and microscopic polymeric beads designed to remove protein and lipids.
Preflex (Alcon)	hydroxyethylcellulose, polyvinyl alcohol, oxyethylene, octyphenol		thimerosal 0.004%, disodium edetate 0.2%	phosphate	Daily cleaner for soft contact lenses and for hard gas-permeable lenses. Nonionic surfactants, Tyloxapol and sodium chloride. Isotonic.
Softcon Lens Cleaner (AOCO) (Softcon)			thimerosal 0.004%, disodium edetate 0.1%	phosphates	For cleaning soft lenses. Contains a proprietary surfactant. Pluronic, poloxamer. Sodium hydroxide or hydrochloric acid to adjust pH. Isotonic.
Soft Mate PS Daily Cleaning Solution (Barnes-Hind)	hydroxyethylcellulose, octylphenoxyethanol		potassium sorbate 0.13%, disodium edetate 0.2%		Cleaning soft lenses. Nonionic surfactant, sodium chloride and chelating agents.

"The trouble with opportunity is that it always comes disguised as hard work."

— Herbert V. Prochnow —

*Have A
Happy Day!*

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