

cleadew SL

ADVANCED CARE SYSTEM

FOR SCLERAL
CONTACT LENSES



positive
impact

Ophtecs

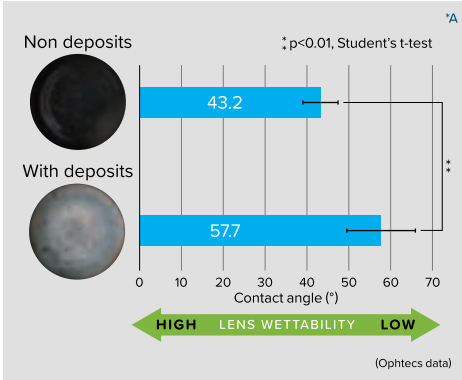
FEATURE 1
Clean

Strong cleaning effect ensures comfortable wear

Cleaning is essential for comfortable lens wear

A report shows that deposits on the lens reduce lens wettability, which leads to discomfort during lens wear.^{*1}

To ensure comfortable lens wear, the deposits need to be completely removed from the lens.

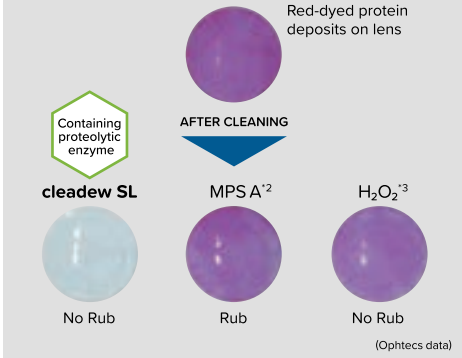


*1 Bourassa S et al. / J Am Optom Assoc 60(8),1989; 584-590

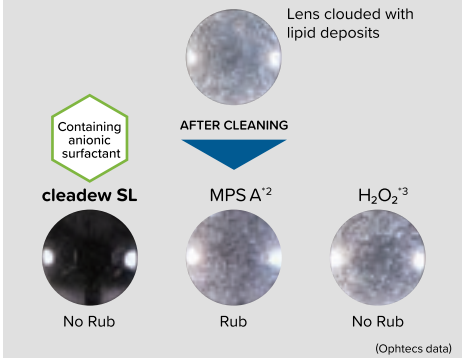
*A Test method: ISO-PBS is dropped on a RGP lens after wearing and the contact angle is measured.

cleadew SL, which contains both a proteolytic enzyme and an anionic surfactant, effectively removes protein and lipid deposits from lenses. This prevents the decreasing of wettability of the lens to allow users to wear it comfortably every day.

Cleaning efficacy against protein deposits^B



Cleaning efficacy against lipid deposits^C



*2 MPS A: chlorhexidine gluconate(CHX) + polyaminopropyl biguanide(PAPB)

*3 H₂O₂: Hydrogen peroxide system with catalase

*B Test method: Adhere protein deposits the RGP lens and carry out care with each care product. Dye the leftover deposits in red before confirming the leftover counts.

*C Test method: Adhere compounding lipid deposits onto the RGP lens and carry out care with each care product. The remaining deposits are evaluated.

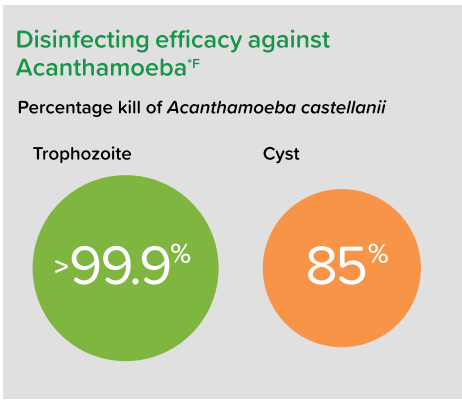
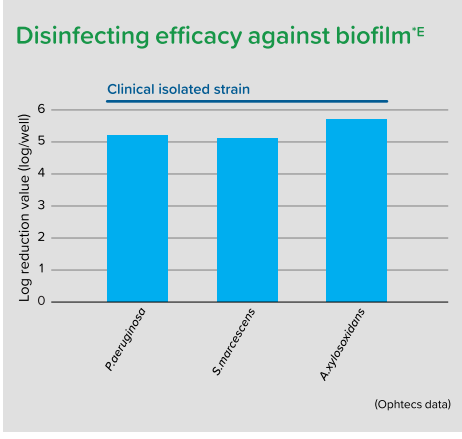
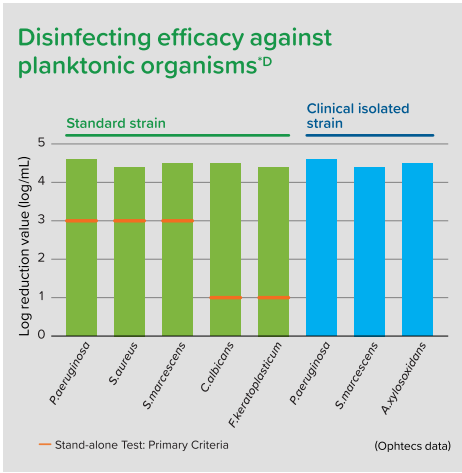
WORLD'S
First

Disinfecting,
cleaning, and
neutralizing
system for scleral
contact lenses

FEATURE 2 Disinfect

Povidone-Iodine disinfects infection-causing organisms

The disinfecting component povidone-iodine, which has a wide antibacterial spectrum, is highly effective against various bacteria, fungi, biofilm-forming bacteria, and Acanthamoeba which is hard to disinfect. This allows users to reduce the risk of development of ocular infection so users can wear their lenses without any anxiety.



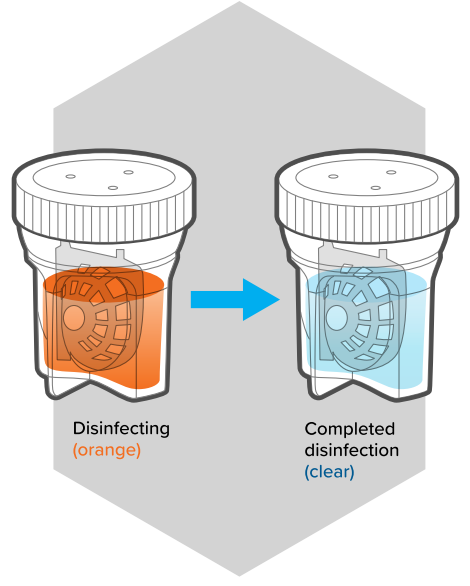
*D Test method: $1.0 \times 10^5 - 10^6$ cfu/mL of the test strains are inoculated in disinfectant and left to stand for 5 minutes. After neutralization, the remaining live strains are counted.
 *E Test method: 1.0×10^7 cfu/well of the test strains are inoculated on the plate for 24 hours to form a biofilm. Disinfectant is added to it and allowed to stand for 5 minutes. After neutralization, the remaining live strains are counted.
 *F Test method:
 [Trophozoite] Trophozoites (1.0×10^5 /mL) are inoculated in disinfecting solution and allowed to stand for 5 minutes. After neutralization, the viable amoebae are counted.
 [Cyst] Cyst (1.0×10^5 /mL) are inoculated in disinfecting solution and allowed to stand for the prescribed period. After neutralization, the viable amoebae are counted.
 [Trophozoite] S. Kilvington et al. / Comparative Antimicrobial Efficacy of a Novel Povidone Iodine Rigid Gas Permeable (RGP) Contact Lens Disinfection System. / NCC2018
 [Cyst] P. Cho et al. / Contact Lens & Anterior Eye 41 (2018) 542-546

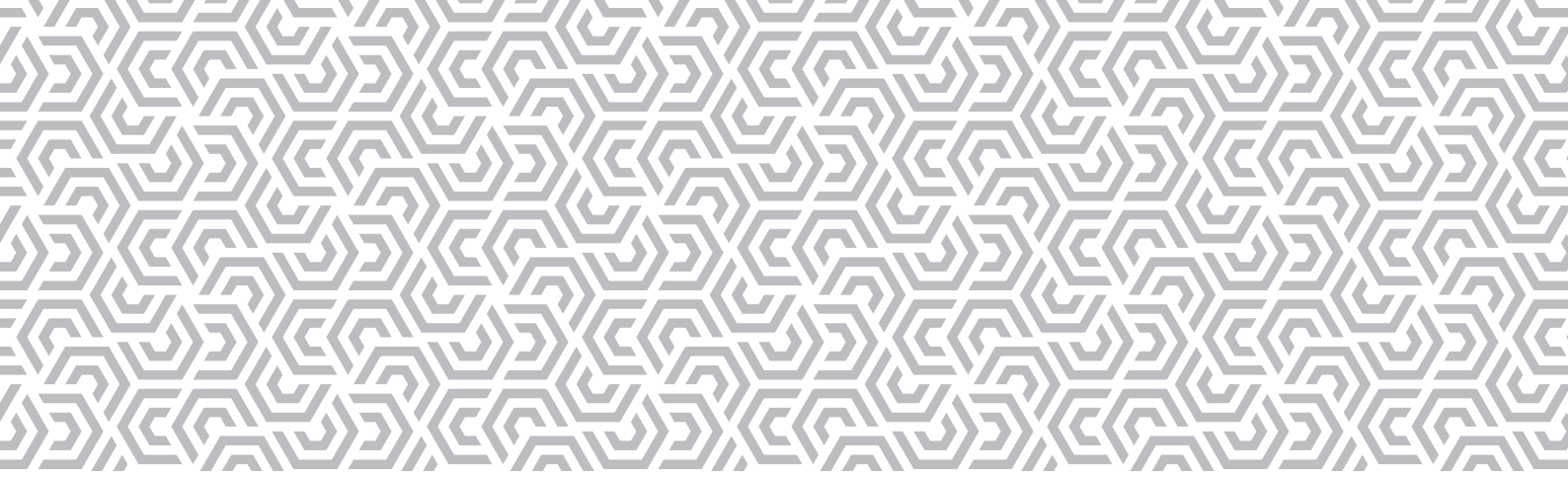
FEATURE 3 Simple

No need to rub! Easy, one-step care

While **cleadew SL** offers high disinfecting performance, it also has an easy care system: simply put the lenses in the storage case, insert a neutralising and cleaning tablet and fill with disinfecting solution.

A change in colour indicates a complete disinfection, so anyone can carry out the correct lens care with ease



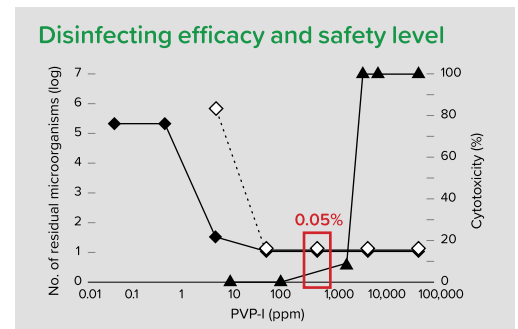


cleadew SL is highly effective against infection-causing organisms, and ensures safety to the corneal epithelium.

EYE SAFTY

Povidone-iodine has a high disinfecting efficacy against bacteria and viruses, while still maintaining a safe level of corneal impact.

cleadew SL contains 0.05% povidone-iodine. It maintains a disinfecting efficacy and a low level of cytotoxicity.



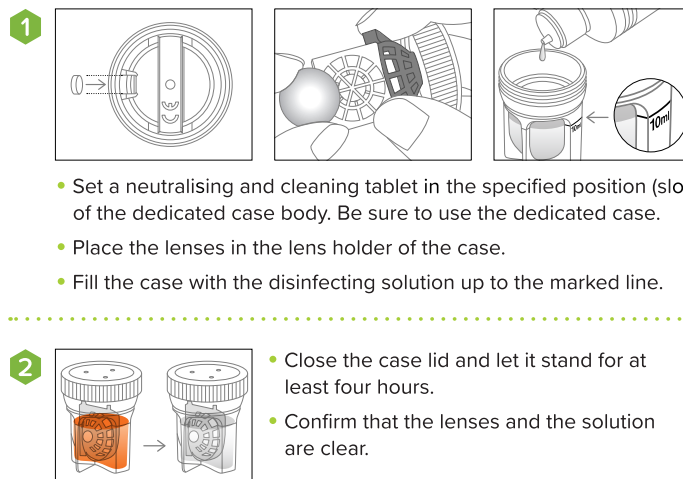
Staphylococcus aureus (◆) *Candida* (◇) Human corneal epithelial cells (▲)
 Left axis: Povidone-iodine with 50 to 500 ppm exerts sufficient disinfectant effect.
 Right axis: The level of 2000 ppm or less indicates lower cornea cytotoxicity.
 R. Yanai et al. / Contact Lens & Anterior Eye 29 (2006) 85–91

CONTENTS



- 1 **Disinfecting solution:** 300mL × 1 Povidone-iodine (0.05%), Boric acid
- 2 **Rinsing solution (cleadew CareSolution):** 360mL × 1 Hydrogen peroxide as preservative (0.004%), Boric acid
- 3 **Neutralising and cleaning tablet:** 30 tablets Sodium sulfite (2.4mg/tablet), Proteolytic enzyme (8.0mg/tablet)
- 4 **Lens case:** 1

HOW TO USE



- 1 • Set a neutralising and cleaning tablet in the specified position (slot) of the dedicated case body. Be sure to use the dedicated case.
- Place the lenses in the lens holder of the case.
- Fill the case with the disinfecting solution up to the marked line.

- 2 • Close the case lid and let it stand for at least four hours.
- Confirm that the lenses and the solution are clear.

- 3 • Pick up the cleaned/disinfected lenses from the holder. Hold them with your fingers and rinse both sides with **cleadew CareSolution** for at least 10 seconds.

CAUTION
 Avoid using saline or MPS solutions containing sodium chlorite as a preservative or disinfectant.

- 4 • After the care of the lenses is completed, wash the lens case with **cleadew CareSolution** and allow it to air dry.