CORNISOL
(Corneal Storage Media)

DESCRIPTION
CORNISOL is a sterile, 20 ml buffered corneal preservation medium supplemented with chondroitin sulfate (Membrane stabilizer), recombinant human insulin (Metabolism enhancer), Dextran (Osmotic agent), stabilized L-glutamine, ATP precursors, vitamins, trace elements, gentamicin, streptomycin and pH indicator

INDICATIONS
CORNISOL is a corneal storage solution for storage of human cornea suitable for keratoplasty for up to 14 days under refrigeration (2°-8°C)

SUITABLE PH RANGE
No differences were observed in the pleomorphism or polymegathism ratings between the corneas in pH 7.0 to 7.5. Hence pH of Cornisol is maintained close to physiological pH and is non toxic to mammalian cells. pH buffering system and Indicators used will dictate the slight variation in pH by color change

ENDOTHELIAL CELL COUNT
Endothelial cell density, polymegathism and pleomorphism were performed by specular microscopy at day 1, 4, 5, 7, 10, 14. Endothelial cell count remained similar throughout 14 days

CORNEAL THICKNESS
Corneal thickness was maintained at comparable to Optisol GS through out 14 Days storage period. The ability of Cornisol to maintain the hexagonal shape of the corneal endothelial cells is equivalent to Optisol GS. High quality Chondroitin sulfate used in the formulation plays major role in the maintenance of endothelial cell integrity.

SUPPLY
Available in a Sterile 20 ml vial (Pack of five)

· Clear optical bottom vial guarantees complete microscopic evaluation without transferring tissue to viewing chamber
· Enhances Endothelial and Epithelial cell preservation
· Reduces corneal thickness and folds
· Dual antibiotics reduces the risk of infection rate
· No bovine derived components to avoid BSE/TSE prion transmission
· Human cornea can be stored up to 14 days under refrigeration
· Highly stable medium
· pH color indicator helps in detection of unacceptable deviation in pH
· Economical corneal storage media for eye banks

Reference: Effect of pH change on Corneas during storage at 4°C. EBAA Abstract, university of Southern California, Doheny Eye Institute, Los Angeles, CA. USA

ENDOTHELIAL CELL COUNT
Specular images: Day 1 (2670 cells/mm2) & Day 14 (3082 cells/mm2)


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No 1, Sivagangai Main Road, Veerapanjan, Madurai 625 020, India.
Phone: 91 452 3096100 Fax: 91 452 2446200
E-mail: info@aurolab.com Web: www.aurolab.com