

CORNEAL GRAFT CONTAINMENT SOLUTION

Safety and innovation in ophthalmology



iRestore

The iRestore solutions are divided into three categories according to their purpose: Conservation (CE marked), Culture (CE mark pending) and Transport (CE mark pending).

iRestore conservation

Sterile liquid for the preservation of the corneal tissues in hypothermia up to 14 days.

iRestore Conservation is a device intended for the preservation of corneal grafts in hypothermic conditions, up to 14 days. Corneal graft is placed into a solution enriched of nutrients and preservative agents which allow the maintenance of the viability of the endothelium and prevent microbial contamination during the entire storage time. The presence of deturgescence agents maintains the transparency and the physiological thickness of the cornea up to the transplantation.

iRestore Conservation filling: 20 mL, sterile (SCC003.20)
30 mL, sterile (SCC003.30)
40 mL, sterile (SCC003.40)

iRestore culture

Sterile liquid for the preservation of corneal tissues up to 30 days.

iRestore Culture is a device intended for the preservation of corneal grafts at 31°C, up to 30 days. Serum based-medium provides higher maintenance standard for the quality of the tissue. Extended incubation time allows accurate endothelial assessment, permitting the selection of cornea with stable and viable endothelium. The presence of antibiotics and antimycotics protects against microbiological contaminations.

iRestore Culture filling: 60 mL, sterile (SCC001.60)
70 mL, sterile (SCC001.70)
80 mL, sterile (SCC001.80)
90 mL, sterile (SCC001.90)
100 mL, sterile (SCC001.100)

ASEPTIC PRODUCTIONS ISOLATOR



Sterile liquid for deturgescence and transport at room temperature of the corneal tissue, up to 5 days.

iRestore Transport is a device intended for the deturgescence and transport at room temperature of the corneal tissue, after incubation in the organ culture medium iRestore Culture, sterile. The presence of deturgescent agent restores the physiological thickness of the cornea, which is increased after cornea culture, and revers the opacification of the tissue which normally occurs during long-term storage in organ culture media. The solution contains antibiotic and antimycotic agents which efficaciously protect against microbiological contaminations.

iRestore Transport filling: 20 mL, sterile (SCC002.20)

30 mL, sterile (SCC002.30)

40 mL, sterile (SCC002.40)

50 mL, sterile (SCC002.50)

SOLUTIONS FOR CORNEAS PRESERVATION IN TRANSPLANTATION PROCESS

iRestore solutions are synthetic media for corneal storage. The special formulations consist of a mixture of salts, aminoacids, vitamins, nutrients and preservative agents which are suitable for the physiological preservation of corneal tissues. It is well known that highly viable corneal endothelium is fundamental for a successful transplantation.

iRestore solutions are enriched with an osmotic agent identified by PAOLO GOBBI FRATTINI R&D department, which avoids tissue edema formation and provides more stable formulations. All the solutions also contain phenol red indicator which allows a rapid visualization of pH variations.

PAOLO GOBBI FRATTINI production process takes advantage of a cutting-edge technique which ensures high qualitative standards. All solutions are in fact terminally sterilized by filtration (0.22 μm) into a positive pressure isolator. This real closed system guarantees an aseptic environment which few companies in the ophthalmic industry are able to provide.

Corneal explants can be preserved in appropriate media both at physiological temperature (organ culture method) and at 4°C (storage in hypothermic condition).

BIBLIOGRAPHY:

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