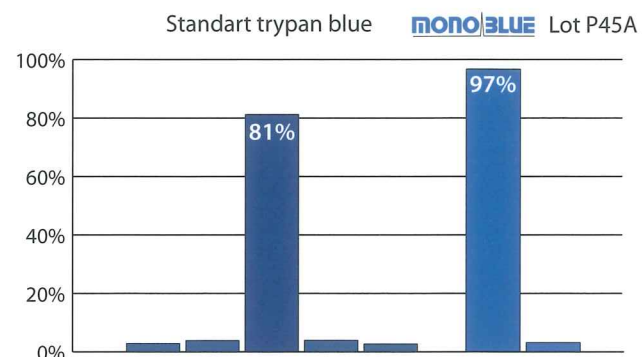


Ultra-pure Trypan blue 2nd generation

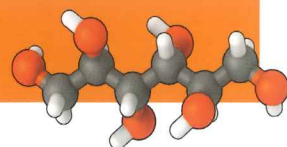
MONOBLUE SafR INCREASES THE SAFETY OF TRYPAN BLUE

■ An ultra-pure staining agent guaranteed by Arcad proprietary process.

- No O-tolidine
- No purple compound
- No mono-azo
- Phthalate free
- Preservative free
- Latex free
- Endotoxin: ≤ 0.5 UE/mL



MANNITOL, AN EFFECTIVE PROTECTIVE AGENT

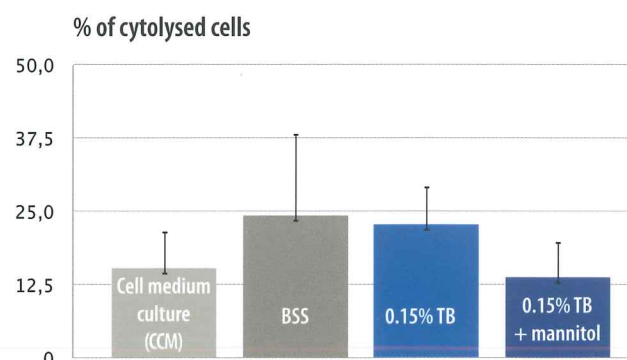


■ Mannitol improves the tolerance of trypan blue.

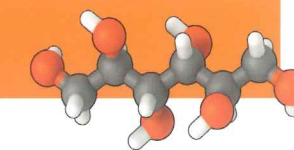
Number of cytolysed cells in trypan blue with mannitol is lower than in trypan blue alone.

- Trypan Blue without mannitol: $22,73 \pm 6,6$ %.
- Trypan Blue with mannitol: $13,73 \pm 6,2$ %.

1. Study of human retinal ARPE-19 cells tolerance to various Trypan Blue solutions. (Datas Arcadophta)



MANNITOL, A FREE RADICAL SCAVENGER

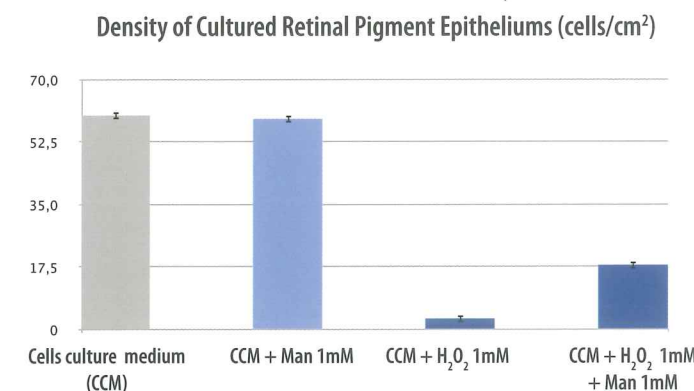


■ Mannitol: an effective anti-oxidant agent in intraocular use.

Mannitol is protecting retinal pigment epithelium cells from the oxidative effect of H_2O_2 .

Density of retinal pigment epithelium cells in:

- CCM + H_2O_2 1mM: 3 cells/cm²
- CCM + H_2O_2 1mM + Mannitol 1 mM : 18 cells /cm²
- CCM + Mannitol 1 mM: 59 cells /cm²



1. Liu JH and a. Therapeutic effects and mechanisms of action of mannitol during H_2O_2 -induced oxidative stress in human retinal pigment epithelium cells. *J Ocul Pharmacol Ther.* 2010 Jun;26(3):249-57.

2. Gupta LY, Marmor MF. Mannitol, dextromethorphan, and catalase minimize ischemic damage to retinal pigment epithelium and retina. *Arch Ophthalmol.* 1993 Mar;111(3):384-8.

MONOBLUE SafR PRESENTATION GUARANTEES A CONTROLLED INJECTION

■ Sterile, apyrogenic, single use.



- Pre-filled 0,75mL syringe individually pouched.
- Long barrel to monitor the injected volume.
- Soft sliding plunger to smoothen the injection.

Required force of pressure on the barrel for the injection (N)

