

Materials List for:

A Simplified Technique for *In situ* Excision of Cornea and Evisceration of Retinal Tissue from Human Ocular Globe

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Materials

Name	Company	Catalog Number	Comments
Materials for excision of cornea and retina.			
Guarded disposable scalpel	Blade size 15	Swann-Morton	
Sterile bandages	5 cm X 5 cm, 8 layered, 5 pcs	Artsana	
Sterile disposable medical towel	35 X 50 cm	U.Jet	
Sterile scissors	Blades 24 mm / overall length. 95 mm curved, blunt	e.janach	
Sterile forceps	Stainless steel -100 mm 11 X 2 ruled by 0.70 mm teeth	e.janach	
Corneal claw – Disposable medical device		NIOS (Hippocratech)	
PBS	100 ml PBS [10x] in 900 ml d/w (distilled water)	Sigma-Aldrich	
Na-thiosulphate	1 gm Na-thiosulphate in 1 litre of PBS [1x]	Sigma-Aldrich	
I-PVP	5 gm I-PVP in 1 litre d/w	Sigma-Aldrich	

Table 2. The table describes the materials used for excision of cornea and retina and the company they are received from.

Materials for storage medium (2000 ml).			
MEM (1X) liquid	Invitrogen	32360-034	
Sodium pyruvate	Invitrogen	11360-039	1mM (10ml/l)
L-glutamine	Invitrogen	25030-032	2mM (10ml/l)
Antibiotic/antimycotic	Sigma-Aldrich	A5955-20ML	10ml/l
Newborn calf serum	Invitrogen	26010-74	2% (20 ml/l)

Table 3. Materials for storage medium.

Preparation of storage medium			
Add all the ingredients using the specific concentrations as given above in a jar and mix well. Filter them using pore size of 0.2 micron filter (Millipore, Milan, Italy) with help of a peristaltic pump. Preserve the medium in the bottles at RT.			
Materials for transport medium (2000 ml).			
MEM (1X) liquid	Invitrogen	32360-034	
Sodium pyruvate	Invitrogen	11360-039	1mM (10 ml/l)
L-glutamine	Invitrogen	25030-032	2mM (10 ml/l)
Newborn calf serum	Invitrogen	26010-74	2% (20 ml/l)
Dextran t500	Pharmacosmos	551005004007	6% (60 gm/litre)

Table 4. Material for transport medium.

Preparation of transport medium			
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Add Dextran 6% in ~ 1.5 litre of MEM and leave it overnight. Add the rest of ingredients in the media and filter using 0.2 micron filter (Millipore, Milan, Italy) using a vacuum pump. Preserve the medium in the bottles at RT.