Materials List for:

Corneal Tissue Engineering: An *In Vitro* Model of the Stromal-nerve Interactions of the Human Cornea

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Materials

Name	Company	Catalog Number	Comments
Healthy corneal tissue	NDRI		Samples from donors with no ocular trauma or systemic disease
Dulbecco's Phosphate Buffered Solution (1X)	Gibco by Life Technologies	14190-144	
Sterile forceps	Fischer Scientific	13-812-42	Fisherbrand Dissecting Extra-Fine-Pointed Splinter Forceps
Single edge razor blades	Personna	270100	
Sterile surgical scalpel blades No.10	Feather Surgical Blade	2976#10	
Eagle's Minimum Essential Medium	ATCC	30-2003	
Fetal Bovine Serum	Atlanta Biologicals	S11550	10% FBS is required for media preparation
Antibiotic-Antimycotic (100X)	Gibco by Life Technologies	15240-062	1% Antibiotic-Antimycotic is required for media preparation
0.05% Trypsin EDTA(1X)	Gibco by Life Technologies	25300062	
Polycarbonate membrane inserts with 0.4-µm pores	Corning Costar	3412	
2-O-α-Dglucopyranosyl-L-ascorbic acid (Vitamin C)	Sigma-Aldrich	SMB00390-14	A concentration of 0.5 mM should be used for the study
Wax block	VWR	50-949-027	
SH-SY5Y Neuroblastoma cells	ATCC	SHSY5YATCC CRL-2266	
Retinoic Acid	Sigma-Aldrich	SRP3014-10UG	Final concentration of 10uM needs to be used
BDNF	Sigma-Aldrich	R2625-100MG	Final concentration of 2nM needs to be used
Dimethyl Sulfoxide(DMSO)	VWR-Alfa Aesar	67-68-5	Ultra Pure Grade-Sterile DMSO to be used
Thermo Scientific Nunc Cell Culture Treated EasYFlasks (T25)	Fisher Scientific	12-565-351	
Thermo Scientific Nunc Cell Culture Treated EasYFlasks (T75)	Fisher Scientific	12-565-349	

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