

Materials List for:

***In Vitro* Permeation of FITC-loaded Ferritins Across a Rat Blood-brain Barrier: a Model to Study the Delivery of Nanoformulated Molecules**

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Materials

Name	Company	Catalog Number	Comments
Rat Brain Microvascular Endothelial Cells	Innoprot	P10308	isolated from Sprague Dawley rat brain tissue, cryopreserved at passage one and delivered frozen
Cortical Astrocytes	Innoprot	P10202	isolated from 2 days rat brain tissue, cryopreserved at passage one and delivered frozen.
Endothelial Cell Medium kit	Innoprot	P60104	ECM (500 ml) and fetal bovin serum (25 ml), endothelial cell growth supplement (5 ml) and penicillin/streptomycin (5 ml). Warm in 37 °C water bath before use and protect from light
Trypsin-EDTA without Phenol Red	EuroClone	ECM0920D	Warm in 37 °C water bath before use
Fluorescein isothiocyanate-dextran 40,000	Sigma	FD40S	protect from light
paraformaldehyde	Sigma	158127	dilution in chemical hood
Dulbecco's phosphate buffer saline w/o Ca and Mg	EuroClone	ECB4004L	
Triton X-100	Sigma	T8787	
bovine serum albumin	Sigma	A7906	
goat serum	EuroClone	ECS0200D	
mouse monoclonal anti-Von Willebrand Factor	Dako	M0616	
AlexaFluor 546-conjugated antibody against mouse IgGs	ThermoFischer Scientific	A-11003	protect from light
DAPI (4',6-diamidino-2-phenylindole)	ThermoFischer Scientific	D1306	protect from light
ProLong Gold Antifade Mountant	ThermoFischer Scientific	P36934	
Poly-L-lysine Hydrobromide	Sigma	P1274	the same solution can be used several times
fibronectin from bovine plasma	Sigma	F1141	the same solution can be used several times
Polyethylene terephthalate (PET) inserts	Falcon	F3090	Transparent Polyethylene terephthalate (PET) membranes; surface area: 4.2 cm ² ; pore size 0.4 µm/surface area
T75 Primo TC flask	EuroClone	ET7076	
T175 Primo TC flask	EuroClone	ET7181	

EVOM2 Epithelial Tissue Volt/ Ohmmeter	World Precision Instruments Germany	EVOM2	
Endohm- 24SNAP cup	World Precision Instruments Germany	ENDOHRM-24SNAP	
Light/fluorescence microscope with camera	Leica Microsystems	DM IL LED Fluo/ ICC50 W Camera Module	inverted microscope for live cells with camera
Confocal Microscope	Leica Microsystems	TCS SPE	
Spectrofluorimeter	Jasco	FP-8000	