

Materials List for:

Synthesis and Evaluation of a Ruthenium-based Mitochondrial Calcium Uptake Inhibitor

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Materials

Name	Company	Catalog Number	Comments
Ruthenium Trichloride hydrate	Pressure Chemical	3750	
Concentrated hydrochloric acid	J.T. Baker	9535	
Concentrated ammonium hydroxide	Mallinckrodt Chemical Works	A669C-2 1	
Dowex 50 WX2 200-400 Mesh	Alfa Aesar	13945	
Calcium Green 5N	Invitrogen	C3737	
Digitonin	Aldrich	260746	
DMSO	Aldrich	471267	
EGTA	Aldrich	E3889	
KCl	USB	20598	
KH ₂ PO ₄	Aldrich	P3786	
MgCl ₂	Fisher Scientific	M33-500	
HEPES	Fluka	54466	
Sodium Succinate	Alfa Aesar	33386	
EDTA	J.T. Baker	8993-01	
Glucose	Aldrich	G5000	
200 Round bottom flask	ChemGlass	CG-1506-14	
Glass stopper	ChemGlass	CG-3000-05	
10 mm x 15 cm glass column with reservoirs	Custom - similar to Chemglass columns	Similar to CG-1203-20	
DMEM	Corning	10-017-CV	
FBS	Gibco	10437028	
PBS	Corning	21-040-CV	
Round bottom Falcon tubes	Fisher Scientific	14-959-11B	
500 cm ² petri dishes	Corning	431110	
Trypan blue	ThermoFisher Scientific	15250061	
Hemocytometer	Aldrich	Z359629	
Acrylic Cuvettes	VWR	58017-875	
UV-Vis spectrometer	Agilent Model Cary 8454		
Spectrofluorimeter	SLM Model 8100C		
IR spectrometer	Bruker Hyprion FTIR with ATR attachment		
Centrifuge	ALC Model PM140R		
Inverted light microscope	VWR	89404-462	