

Materials List for:

In vitro Labeling of Human Embryonic Stem Cells for Magnetic Resonance Imaging

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Materials

Name	Type	Company	Catalog Number	Comments
Manganese chloride tetrahydrate	Reagent	Sigma-Aldrich	M8054	
(S)-(-)-Bay K8644	Reagent	Sigma-Aldrich	B133	
(+)-Verapamil hydrochloride, minimum 99.0% titration	Reagent	Sigma-Aldrich	V4629	
Sodium Chloride 0.85-0.90% W/V	Reagent	VWR international	VW 3257-1	
Feridex I.V.	Reagent	Berlex Laboratories	NDC 59338-7035-5	ferumoxides injectable solution 11.2mg iron/mL
Protamine sulfate	Reagent	American Pharmaceutical Partners	NDC 63323-229-05	50 mg (10 mg/mL)
Knockout SR (Serum replacement for ES cells)	Reagent	GIBCO, by Life Technologies	10828	
DMEM/F12 (1:1)	Reagent	GIBCO, by Life Technologies	11330	
2- mercapt-ethanol 98+%	Reagent	Sigma-Aldrich	M 3148	
L-Glutamine 200mM 100x	Reagent	GIBCO, by Life Technologies	25030	
Penicillin-Streptomycin 10,000 units/ml	Reagent	GIBCO, by Life Technologies	15140-122	
MEM Non-Essential Amino Acids 100x solution	Reagent	GIBCO, by Life Technologies	11140	
Signa HDx 3T MRI	Tool	GE Healthcare		
clinical Knee coil	Tool	GE Healthcare		
DPBS	Reagent	GIBCO, by Life Technologies	14190	