

Materials List for:

Transfecting and Nucleofecting Human Induced Pluripotent Stem Cells

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Materials

Name	Company	Catalog Number	Comments
0.25% Trypsin with EDTA	Invitrogen	25200056	
2-Mercapto-ethanol	Invitrogen	21985-023	
3 mm glass beads	Fisher Scientific	11-312A	Glass beads should be washed with hydrochloric acid (HCl) overnight, rinsed off with sodium hydroxide (NaOH) and distilled water, and sterilized by autoclave before use.
Accutase cell dissociation reagent	Invitrogen	A11105-01	
Basic fibroblast growth factor (bFGF)	Invitrogen	PHG0263	
DMEM (high glucose)	Lonza Inc.	12-741 F	
Fetal calf serum	Invitrogen	16000044	
Geltrex	Invitrogen	12760013	Growth factor reduced
GeneJuice transfection reagent	EMD Millipore	70967	
Glutamax-I (100X)	Invitrogen	35050061	L-Glutamine (Invitrogen, 25030081) can also be used instead.
Human iPSC KOSR media			500 ml human ES media consists of 390 ml KnockOut DMEM/ F12, 100 ml KnockOut Serum Replacer, 5ml Glutamax-I (100X), 5ml NEAA (100X), 500 µl 2-Mercapto-ethanol (55mM) and supplemented with 10 ng/ml bFGF.
KnockOut DMEM/F12	Invitrogen	12660-012	
KnockOut Serum Replacement (KOSR)	Invitrogen	10828-028	
Mouse embryonic fibroblast media			MEF media consists of 90% FBS, 1X NEAA, 1X Glutamax-I and 1X sodium pyruvate in DMEM (high glucose)
Non essential amino acid, NEAA? (100X)	Invitrogen	11140050	
Human stem cell nucleofector solution 1 with supplement	Lonza Inc.	VAPH-5012	
Phosphate Buffered Saline without Ca ²⁺ and Mg ²⁺	Invitrogen	10010023	
Sodium pyruvate (100X)	Invitrogen	11360070	
STEMPRO medium kit	Invitrogen	A1000701	500 ml STEMPRO media consists of 454 ml KnockOut DMEM/ F12, 10 ml STEMPRO serum-free growth supplement (50X), 5ml Glutamax-I (100X), 5ml NEAA

		(100X), 36 ml BSA (Bovine serum albumin, 25%), 909 μ l 2-Mercapto-ethanol (55mM) and supplemented with 10 ng/ml bFGF.
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