

Materials List for:

Generation of Induced-pluripotent Stem Cells Using Fibroblast-like Synoviocytes Isolated from Joints of Rheumatoid Arthritis Patients

Yeri Alice Rim^{1,3}, Narae Park¹, Yoojun Nam¹, Ji Hyeon Ju^{2,3}

¹CiSTEM Laboratory, Convergent Research Consortium for Immunologic Disease, Division of Rheumatology, Seoul St. Mary's Hospital, Republic of Korea

²Division of Rheumatology, Department of Internal Medicine, Seoul St. Mary's Hospital, Institute of Medical Science, Republic of Korea

³College of Medicine, The Catholic University of Korea, Republic of Korea

Correspondence to: Ji Hyeon Ju at juji@catholic.ac.kr

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Materials

Name	Company	Catalog Number	Comments
100 mm Dish	TPP	93100	
6-well Plate	TPP	92006	
50 ml Conical Tube	SPL	50050	
15 mL Conical Tube	SPL	50015	
10 ml Disposable Pipette	Falcon	7551	
5 ml Disposable Pipette	Falcon	7543	
12-well Plate	TPP	92012	
FLS Isolation Materials			
Surgical Scissors			
Surgical Forcep			
DPBS	Life Technologies	14190-144	
DMEM	Life Technologies	11995-073	
Penicillin Streptomycin	Sigma Aldrich	P4333	
Fetal Bovine Serum (FBS)	Life Technologies	16000-044	
Collagenase	Sigma Aldrich	C6885-100MG	
Parafilm	Sigma Aldrich	54956	
PBS/1 mM EDTA	Life Technologies	12604-039	
iPSC Generation Materials			
DMEM	Life Technologies	11885	
MEM Non-Essential Amino Acids Solution (100x)	Life Technologies	11140-050	
β-Mercaptoethanol	Sigma Aldrich	M3148	
Polybrene	Chemicon	TR-1003-G	
Penicillin Streptomycin	Life Technologies	P4333	
Fetal Bovine Serum (FBS)	Life Technologies	16000-044	
DPBS	Life Technologies	14190-144	
Lentivirus			
DMEM/F12, HEPES	Life Technologies	11330-057	iPSC media ingredient (500 ml)
Sodium Bicarbonate	Life Technologies	25080-094	iPSC media ingredient (Conc.: 543 µg/ml)
Sodium Selenite	Sigma Aldrich	S5261	iPSC media ingredient (Conc.: 14 ng/mL)
Human Transferrin	Sigma Aldrich	T3705	iPSC media ingredient (Conc.: 10.7 µg/ml)

Basic FGF2	Peprtech	100-18B	iPSC media ingredient (Conc.: 100 ng/ml)
Human Insulin	Life Technologies	12585-014	iPSC media ingredient (Conc.: 20 µg/ml)
Human TGFβ1	Peprtech	100-21	iPSC media ingredient (Conc.: 2 ng/ml)
Ascorbic Acid	Sigma Aldrich	A8960	iPSC media ingredient (Conc.: 64 µg/ml)
Polybrene	Chemicon	TR-1003	
Sodium Butyrate	Sigma Aldrich	B5887	
Vitronectin	Life Technologies	A14700	
ROCK Inhibitor	Sigma Aldrich	Y0503	
Quality Control Materials			
18 mm Cover Glass	Superior	HSU-0111580	
4% Paraformaldehyde (PFA)	Tech & Innovation	BPP-9004	
Triton X-100	BIOSESANG	9002-93-1	
Bovine Serum Albumin (BSA)	Vector Lab	SP-5050	
Anti-SSEA4 Antibody	Millipore	MAB4304	
Anti-Oct4 Antibody	Santa Cruz	SC9081	
Anti-TRA-1-60 Antibody	Millipore	MAB4360	
Anti-Sox2 Antibody	Biolegend	630801	
Anti-TRA-1-81 Antibody	Millipore	MAB4381	
Anti-Klf4 Antibody	Abcam	ab151733	
Alexa Fluor 488 goat anti-mouse IgG (H+L) antibody	Molecular Probe	A11029	
Alexa Fluor 594 goat anti-rabbit IgG (H+L) antibody	Molecular Probe	A11037	
DAPI	Molecular Probe	D1306	
Prolong gold antifade reagent	Invitrogen	P36934	
Slide Glass, Coated	Hyun Il Lab-Mate	HMA-S9914	
Trizol	Invitrogen	15596-018	
Chloroform	Sigma Aldrich	366919	
Isopropylalcohol	Millipore	109634	
Ethanol	Duksan	64-17-5	
RevertAid First Strand cDNA Synthesis kit	Thermo Scientific	K1622	
i-Taq DNA Polymerase	iNtRON BIOTECH	25021	
UltraPure 10x TBE Buffer	Life Technologies	15581-044	
loading star	Dyne Bio	A750	
Agarose	Sigma-Aldrich	9012-36-6	
1 kb (+) DNA ladder marker	Enzynomics	DM003	
Alkaline Phosphatase	Millipore	SCR004	