

Materials List for:

Expression of Exogenous Cytokine in Patient-derived Xenografts via Injection with a Cytokine-transduced Stromal Cell Line

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Materials

Name	Company	Catalog Number	Comments
Wet lab reagents			
T-25 Nunc Cell Culture Treated EasYFlasks, 7 mL capacity, 25cm ² culture area	Thermo Scientific / Fisher	156367	
T-75 Falcon Tissue Culture Treated Flask, 250 mL capacity, 75 cm ² culture area & vented cap	Corning Inc. / Fisher	353136	
T-150 Falcon Tissue Culture Treated Flask, 600 mL capacity, 150 cm ² culture area & vented cap	Corning Inc. / Fisher	355001	
10 mL serological pipettes	Falcon	357551	
15 mL polypropylene conical tubes	Fisher	05-539-12	
5 mL round-bottom polystyrene tubes	Falcon	352054	
50 mL polypropylene conical tubes	Falcon	352098	
2.0 mL cryogenic vials, externally threaded	Corning Inc. / Fisher	4230659	
1 mL pipette tips	Fisher	2707509	
200 µL pipette tips	Denville Scientific	P3020-CPS	
10 µL pipette tips	Denville Scientific	P-1096-CP	
Sterile Disposable Filter Units with SFCA Membrane, Nalgene Rapid-Flow	Fisher	09-740-28D	
2 NH ₂ SO ₄	BioLegend	423001	
Dulbecco's phosphate-buffered saline (PBS) without calcium and magnesium, 1×	Corning cellgro/ Mediatech	21-031-CV	
Human TSLP ELISA Max Deluxe Set	BioLegend	434204	
3% Acetic Acid with Methylene Blue	Stemcell Technologies	7060	
Trypan Blue	Corning	25-900-CI	
"Trypsin" 1x 0.25% Trypsin 2.21 mM EDTA in HBSS	ThermoFisher	25-053	
TWEEN 20 BioXtra	Sigma-Aldrich	P-7949	
"R10" cell culture medium, % of total volume (makes 565 mL)	-	-	Lab Recipe
RPML, 88.5% (500 mL)	Mediatech	10-040-CV	

FBS, 9.9% (56 mL)	Mediatech	35-011-CV	
L-Glutamine, 0.99% (5.6 mL)	Mediatech	25-005-CI	
Penicillin-Streptomycin, 0.50% (2.8 mL)	Mediatech	30-002-CI	
2-Mercaptoethanol, 0.10% (560 µL)	MP	190242	
"R20" cell culture medium, % of total volume (makes 195 mL)	-	-	Lab Recipe
RPMI, 76.84% (150 mL)	see above	see above	
FBS, 20.49% (40 mL)	see above	see above	
2mM L-glutamine, 1.02% (2 mL)	see above	see above	
1 mM Na pyruvate, 1.02% (2 mL)	see above	see above	
Penicillin-Streptomycin, 0.51% (1 mL)	see above	see above	
2-Mercaptoethanol, 0.10% (0.1 M), 0.10% (200 µL)	see above	see above	
"Freezing medium", % of total volume	-	-	Lab Recipe
"R10" medium, 45%	see "R10" recipe	-	
FBS, 20%	see above	35-011-CV	
DMSO, 10%	Corning	25-950-CQC	
D-(+)-Trehalose dihydrate, 5%	Fisher Scientific	BP2687-100	
Name	Company	Catalog Number	Comments
Biologics			
"HS-27" HS-27A human stroma line	ATCC	CRL-2496	
"CALL-4" MHH-CALL-4 cell line, human B cell precursor leukemia	DSMZ	ACC 337	
"NSG mice" NOD.Cg-Prkdc ^{scid} Il2rg ^{tm1Wjl} /SzJ, male or female, age 6 – 8 weeks	JAX Mice	# 005557	
MUTZ-5 cell line, human B cell precursor leukemia	DSMZ	ACC 490	
Recombinant Human TSLP protein	R&D Systems	1398-TS-010	
Name	Company	Catalog Number	Comments
Flow cytometry antibodies (clone)*			
Anti-mouse CD45 FITC (30F11)	Miltenyi Biotec	130-102-778	
CD127 PE (MB15-18C9) (alternate name is IL-7Rα)	Miltenyi Biotec	130-098-094	
CD34 APC (8G12)	BD Biosciences	340667	
CD45 PE-Cy7 (HI30)	eBioscience	25-0459	
"FVD" Fixable viability dye eFluor 780	eBioscience	65-0865	
Ig κ light chain FITC (G20-193)	BD Pharmingen	555791	
Ig λ light chain FITC (JDC-12)	BD Pharmingen	561379	
IgD PE (IA6-2)	BioLegend	348203	
IgM PE-Cy5 (G20-127)	BD Biosciences	551079	
pSTAT5 PE, mouse anti-STAT5 (pY694)	BD PhosphoFlow	612567	

Name	Company	Catalog Number	Comments
Other materials & equipment			
Animal Implantable Nano Transponder with Canula	Trovan	ID-100B(1.25)	
EMLA lidocaine anesthetic cream (obtain by prescription through animal care facility)	perscription	perscription	
BD ½ cc LO-DOSE U-100 Insulin Syringe 28G½	BD	#329461	
BD Microtainer Tubes with K ₂ EDTA	BD	#365974	
Centrifuge	Beckman Coulter	Alegre X-15R	
FisherBrand Capillary Tubes (Heparinized)	Fisher Scientific	22-260-950	
Hemocytometer	Fisher	02-671-6	
MACSQuant Analyzer 10	Miltenyi Biotec	130-096-343	
Mouse Pie Cage	Braintree Scientific, Inc.	MPC-1	
Mouse Tail Illuminator Restrainer	Braintree Scientific, Inc.	MTI STD	
Pistol Grip Implanter	Trovan	IM-300(1.25)	
µQuant	Bio-Tek Instruments Inc.	MQX200	
FlowJo flow cytometry analysis software	FlowJo, LLC	Version 10	
*All antibodies are anti-human unless otherwise stated.			