

Materials List for:

Establishment of the Dual Humanized TK-NOG Mouse Model for HIV-associated Liver Pathogenesis

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Materials

Name	Company	Catalog Number	Comments
27G1/2" needles	BD biosciences	305109	
30G1/2" needles	BD biosciences	305106	
5 mL polystyrene round-bottom tube 12 x 75 mm style	Corning	352054	
BD 1 mL Tuberculin Syringe Without Needle	BD biosciences	309659	
BD FACS array bioanalyzer	BD Biosciences		For purity check of eluted CD34+ cells
BD FACS array software	BD Biosciences		Software to analysis acquired CD34+ cell on FACS array
BD FACS lysing solution	BD Biosciences	349202	To lyse red blood cells
BD LSR II	BD Biosciences		Instrument for acquisiton of flow cytometry samples
BD Vacutainer Plastic Blood Collection Tube	BD biosciences	BD 367874	To collect Cord blood
Bovine Serum Albumin	Sigma-aldrich	A9576	
Buprenorphine			Controlled substance and pain-killer
CD14-PE	BD Biosciences	555398	Specific to human
CD19-BV605	BD Biosciences	562653	Specific to human
CD34 MicroBead Kit, human	Miltenyi Biotec	130-046-702	For isoation of CD34+ HSPC
CD34-PE, human	Miltenyi Biotec	130-081-002	Antibody used for purity check of eluted CD34+ cells
CD3-AF700	BD Biosciences	557943	Specific to human
CD45-PerCPCy5.5	BD Biosciences	564105	Specific to human
CD4-APC	BD Biosciences	555349	Specific to human
CD8-BV421	BD Biosciences	562428	Specific to human
Cell counting slides	Bio-rad	1450015	
ChargeSwitch gDNA Mini Tissue Kit	Thermofisher scientific	CS11204	for extraction of genomic DNA from ear piece
Cobas Amplicor system v1.5	Roche Molecular Diagnostics		bioanalyzer to measure viral load
Cotton-tipped applicators	McKesson	24-106-2S	
Cytokeratin-18 (CK18)	DAKO	M7010	Specific to human
DMSO (Dimethyl sulfoxide)	Sigma-aldrich	D2650-5X5ML	
Extension set Microbore Slide Clamp(s) Fixed Male Luer Lock. L:	BD biosciences	30914	Attached to dispensing pippet and to load with HSPC and HEP suspesion

60 in L: 152 cm PV: 0.55 mL Fluid Path Sterile			
FACS Diva version 6	BD Biosciences		flow cytometer software required for acquisition of sample
Fetal Bovine Serum (FBS)	Gibco	10438026	
FLOWJO analysis software v10.2	FLOWJO, LLC		flow cytometry analysis software
Ganciclovir	APP Pharmaceuticals, Inc.	315110	Prescription drug
Greiner MiniCollect EDTA Tubes	Greiner bio-one	450475	
Hepatocytes thawing medium	Triangle Research Labs	MCHT50	
Horizon Open Ligating Clip Appliers	Teleflex	537061	To hold the ligating clips
Hospira Sterile Water for Injection	ACE surgical supply co. Inc.	001-1187	For dilution of Buprenorphine (pain-killer)
Human Albumin ELISA Quantitation Set	Bethyl laboratories	E80-129	For assesing human albumin levels in mouse serum
Human hepatocyte	Triangle Research Labs	HUCP1	Cryopreserved human hepatocytes, induction qualified
Iris Scissors, Straight	Ted Pella, Inc.	13295	
Lancet	MEDlpoint	Goldenrod 5 mm	
LS columns	Miltenyi Biotec	130-042-401	Used to entrap CD34 ⁺ microbeads (positive selection)
Lymphocyte Separation Medium (LSM)	MP Biomedicals	50494	For isoation of lymphocytes from peripheral blood
MACS MultiStand	Miltenyi Biotec	130-042-303	holds Qudro MACS seperator and LS columns
McPherson-Vannas Micro Dissecting Spring Scissors	Roboz Surgical Instrument Co.	RS-5605	Used to make an incision on skin to expose spleen
Micro Dissecting Forceps	Roboz Surgical Instrument Co.	RS-5157	to hold and pull out spleen from peritoneal cavity
mouse CD45-FITC	BD Biosciences	553080	mouse-specific
PBS (Phosphate Buffered Saline)	Hyclone	SH30256.02	
Qudro MACS separator	Miltenyi Biotec	130-090-976	holds four LS columns
RPML 1640 medium	Gibco	11875093	
StepOne Plus Real Time PCR	Applied Biosystems		Instrument used to genotype
Stepper Series Repetitive Dispensing Pipette 1ml	DYMAX CORP	T15469	Used to dispense HSPC and HEP supension in controlled manner
Suturevet PGA synthetic absorbale suture	Henry Schein Animal Health	41178	Suturing of skin and peritoneum
TaqMan Gene Expression Master Mix	Thermofisher scientific	4369016	
TC20 automated cell counter	Bio-rad	1450102	
TK-NOG mice			Provided by the Central Institute for Experimental Animals (CIEA, Japan; Drs. Mamoru Ito and Hiroshi Suemizu)
Treosulfan	Medac GmbH		Provided by Dr. Joachim Baumgart (medac GmbH)
Trypan Blue	Bio-rad	1450022	
Vannas-type Micro Scissors, Straight, 80mm L	Ted Pella, Inc.	1346	Used to make an incision on skin to expose spleen

Weck hemoclip traditional titanium ligating clips	Esutures	523700	To ligate the spleen post-injection
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