

Materials List for

Simplified Intrafemoral Injections Using Live Mice Allow for Continuous Bone Marrow Analysis

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jove.com/video/65874

Materials

Name	Company	Catalog Number	Comments
1/2 mL Syringe, 27 G	BD	305620	https://www.bd.com/en-ca/offerings/capabilities/bd-luer-lok-syringe-with-attached-needle/305620
ACK Lysing Buffer	Qualoty Biological	118-156-101CS	https://www.qualitybiological.com/product/ack-lysing-buffer/
Biological Irradiator	Kimtron	IC-250	https://www.kimtron.com/ic-250
Chlorhexidine	Nolvasan	NDC 54771-8701-1	https://www.zoetisus.com/products/petcare/nolvasan-skin-and-wound-cleanser
Ethyl alcohol, proof 190	Gold Shield		https://goldsd.com/line-card/
FACSCanto II	(Becton Dickinson and Company (BD), Franklin Lakes, NJ, USA		
Fetal Bovine Serum (FBS)	Omega Scientific	FB-01	https://www.omegascientific.com/product/fetal-bovine-serum-usda-certified/
Flow cytometer, ArialI	Beckton Dickinson (BD)		cell sorting
IMDM	Gibco	12440053	https://www.thermofisher.com/order/catalog/product/12440053
Isoflurane, USP	Dechra	NDC 17033-094-25	https://www.dechra-us.com/our-products/us/companion-animal/dog/prescription/isoflurane-usp-inhalation-anesthetic
NOD.Cg-Prkdcscid Il2rgtm1Wjl/SzJ (NSG) mice	Jackson Laboratory, Bar Harbor, ME, USA	Strain #:005557	Six- to ten-week-old male or female
Ophthalmic ointment, USP	Bausch Lomb	NDC 24208-780-55	https://www.bausch.com/contentassets/2914df881e4344a7a202cc5a0673c977/neomycin-and-polymyxin-b-sulfates-gramicidin-ophthalmic-solution.pdf
OstiFen Injection (Caprofen)	VetOne	NDC 13985-748-20	http://vetone.net/Default/CatHeaderPage?id=9534ccca-eac5-4d68-8ad8-46436067587b

PBS, pH 7.4	Homemade		
Penicillin-Streptomycin	Gibco	15140122	https://www.thermofisher.com/order/catalog/product/15140122
Povidone-iodine	Betadine	NDC 67618-155-16	https://www.betadine.com/veterinary-surgical-scrub-and-solution/
TokeOni (in the U.S.)	Sigma-Aldrich	808350-5MG	AkaLumine-HCl/Akaluc; https://www.sigmaaldrich.com/US/en/product/aldrich/808350
UltraPure 0.5 M EDTA, pH 8.0	Invitrogen	15575020	https://www.thermofisher.com/order/catalog/product/15575020
Engraftment antibody panel (in vivo, mouse bone marrow)			
Antigen			Dilution
Antigen: Anti-human CD45 Fluorophore: V450 Clone: HI30	BD Biosciences	560367	1:25
Antigen: Anti-mouse CD45.1 Fluorophore: PE-Cy7 Clone: A20	eBioscience	25-0453-81	1:50
Antigen: Anti-mouse TER-119 Fluorophore: PE-Cy5 Clone: TER-119	eBioscience	15-5921-83	1:100
Antigen: Anti-human CD3 Fluorophore: APC-Cy7 Clone: SK7	BD Biosciences	341090	1:12.5
Antigen: Anti-human CD19 Fluorophore: APC Clone: HIB19	BD Biosciences	555415	1:25
Antigen: Anti-human CD33 Fluorophore: PE Clone: WM53	BD Biosciences	555450	1:25
Live/Dead staining			Conc.
PI	Invitrogen		1 µg/mL
Compensation beads			
Negative control	BD Biosciences		See instruction for details
Anti-mouse Ig, κ	BD Biosciences		See instruction for details