

Materials List for:

Generation of Large Numbers of Myeloid Progenitors and Dendritic Cell Precursors from Murine Bone Marrow Using a Novel Cell Sorting Strategy

Peter B. Rogers¹, Elizabeth Hiltbold Schwartz¹

¹Department of Biological Sciences, Auburn University

Correspondence to: Elizabeth Hiltbold Schwartz at ehs0009@auburn.edu

URL: <https://www.jove.com/video/57365>

DOI: [doi:10.3791/57365](https://doi.org/10.3791/57365)

Materials

Name	Company	Catalog Number	Comments
RPMI 1640	Corning	15-040-CV	
Fetal Calf Serum (FCS)	HyClone	SV30014.04	to supplement complete medium and FWB
GlutaMAX	Gibco	35050	to supplement complete medium
2-mercaptoethanol (2-ME)	MP Biomedical	190242	to supplement complete medium
75 mM Vacuum Filter	Thermo Scientific	156-4045	to sterilize complete media
ACK Lysis Buffer	Lonza	10-548E	to lyse red blood cell
HBSS buffer	Corning	21-020-CM	to rescue leukocytes after red blood cell lysis
Phosphate Buffered Saline (PBS), Dulbecco's	Lonza	17-512F	must be endotoxin free; chilled at 4 °C
35 µm Cell filter	Falcon	352235	to break apart clumps before running through cytometer.
GM-CSF	Biosource	PMC2011	usable concentration of 10 ng/mL
Tissue cultured treated plate	VWR	10062-896	for bone marrow cells after harvest
Anti-Ly6C, Clone HK1.4	Biolegend	128018	
Anti-CD115, Clone AFS98	Tonbo Bioscience	20-1152-U100	
Anti-CD11c, Clone HL3	BD Biosciences	557400	to differentiate CMP and MoDCs
MoFlo XPD Flow Cytometer	Beckman Coulter	ML99030	
BD Accuri C6	BD Biosciences	660517	
100% Ethanol	Pharmco-Aaper	111000200CSPP	
60 mm Petri Dish	Corning, Inc	353002	
50 mL Conical tube	VWR	21008-242	
C57BL/6 Mice	The Jackson Laboratory	000664	Female; 10-20 weeks old
Biosafety Hood	Thermo Scientific	8354-30-0011	
10 mL Syringe	BD Biosciences	301604	
23 G needle	BD Biosciences	305145	
Centrifuge 5810 R	eppendorf	22625501	
FlowJo Software v10	BD Biosciences	Version 10	flowjo.com