

Materials List for:

Rapid Fractionation and Isolation of Whole Blood Components in Samples Obtained from a Community-based Setting

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Materials

Name	Company	Catalog Number	Comments
QIAamp DNA Blood Mini Kit	Qiagen	51104	Day 1: DNA isolation
Phosphate-buffered saline (PBS)	Sigma	P5493-1L	Day 1: PBMC isolation
5 ¼" Pasteur pipets	Fisher	13-678-6A	Day 1: PBMC isolation
Fetal Bovine Serum (FBS), heat inactivated	Life Technologies	10082147	Day 1: PBMC isolation
Dimethyl Sulfoxide (DMSO)	Sigma	D8418-500ml	Day 1: PBMC isolation
RPMI Medium 1640, liquid	Invitrogen	11875119	Day 1: PBMC isolation
0.4% trypan blue stain	Invitrogen	T10282	Day 1: PBMC isolation
Countess Cell Counting Chamber	Invitrogen	C10283	Day 1: PBMC isolation
Countess Automated Cell Counter or cell counting device such as a microscope and hemocytometer	Invitrogen	C10281	Day 1: PBMC isolation
LeukoLOCK Fractionation & Stabilization Kit	Ambion	1933	Day 1: Leukocyte RNA isolation
25 G x 5/8 in. needles	Becton Dickinson	305122	Day 1: Leukocyte RNA isolation
Syringes (5 ml)	Becton Dickinson	309646	Days 1 and 2: Leukocyte RNA isolation
Denaturing Lysis Solution	Ambion	8540G	Day 2: Leukocyte RNA isolation
5 M NaCl	Life Technologies	24740011	Day 2: Leukocyte RNA isolation
TRI Reagent	Ambion	9738	Day 2: Leukocyte RNA isolation
Bromo-3-chloro-propane (BCP)	Sigma	B-9673	Day 2: Leukocyte RNA isolation
spin cartridges	Ambion	10051G	Day 2: Leukocyte RNA isolation
0.1 mM EDTA	Ambion	9912	Day 2: Leukocyte RNA isolation
DNA-free Kit	Ambion	AM1960	Day 2: DNase treatment
RNA 6000 Ladder	Agilent	5067-1529	Day 2: Bioanalyzer analysis
RNA 6000 Nano Series II Kit	Agilent	5067-1511	Day 2: Bioanalyzer analysis
RNaseZAP	Ambion	AM8782	Day 2: Bioanalyzer analysis
Ethanol>99%	Sigma	E7023-500ml	
Isopropanol>99%	Sigma	I9516-500ml	
Nuclease-free ultra pure water	Invitrogen	9938	
Pipette tips (nuclease-free)	Eppendorf	22491253	

Pipetter (serological)	Eppendorf	2223020-4	
Pipetters (for volumes under 1 ml)	Eppendorf	3120000-054	
Pipettes (serological)	Fisher	13-678-27E	
Controlled rate freezing containers	Nalgene	5100-0001	
Cryoboxes (to hold 2 ml and 5 ml cryovials and 1.5 ml microcentrifuge tubes)	Fisher	03-395-464	
Test tube rack	Thermo Scientific	14-804-134	
15 ml polypropylene tubes	Fisher	14-959-49D	
1.5 ml and 0.65 microcentrifuge tubes	Fisher	07-200-534 and 07-200-185	
2 ml and 5 ml cryovials	Fisher	10-500-26 and 10-269-88F	
8 ml CPT vacutainer	BD Biosciences	362761	2 tubes
6 ml K ₂ EDTA vacutainer	BD Biosciences	367863	2 tubes
8.5 ml SST vacutainer	BD Biosciences	367988	1 tube
Vortexer	Fisher	2215365	
Dry bath incubator with heating block for microcentrifuge tubes	Fisher	11-715-1250	
Filtration/vacuum system for use within the cell culture hood	Fisher	01-257-87	
Fixed-angle rotor for microcentrifuge tubes with aerosol-tight lid	Eppendorf	22637002	
Refrigerated centrifuge with a swing-bucket rotor and aerosol-tight caps for 16 x 125 mm vacutainers and 15 ml polypropylene tubes	Eppendorf	22628157	2, one does not need to be refrigerated
Nanodrop 2000 (recommended for accuracy of small volumes) or other spectrophotometric device	Fisher	13-400-411	
Agilent Bioanalyzer	Agilent Technologies	G2940CA	
Liquid nitrogen tank	Thermo Scientific	11-676-56	
Sharps container	Fisher	22-037-970	
Biological waste container	Thermo Scientific	1223P52	
Biosafety Level 2 certified cell culture hood	Thermo Scientific	13-261-315	