

Materials List for:

Isolation of Leukocytes from the Human Maternal-fetal Interface

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Materials

Name	Company	Catalog Number	Comments
Dissection			
Sterile dissection tools: surgical scissors, forceps, and fine-tip tweezers	Any vendor	20012-027	
1X phosphate buffered saline (PBS)	Life Technologies		(1X PBS)
Large and small Petri dishes	Any vendor		
Dissociation			
Accutase	Life Technologies	A11105-01	(cell detachment solution)
Sterile 2 ml safe-lock conical tubes	Any vendor		
50 ml conical centrifuge tubes	Any vendor		
100 µm cell strainers	FALCON/Corning	352360	
5 ml round bottom polystyrene test tubes	Any vendor		
Transfer pipettes	Any vendor		
C tubes	Miltenyi Biotec	130-093-237	
Cell Culture			
RPMI culture medium 1640	Life Technologies	22400-089	(1X) (10% FBS and 1% P/S)
Plastic chamber slides	Thermo Scientific	177437	
Incubator	Thermo Scientific Corporation	HEPA Class 100	
Water bath	Fisher Scientific	ISOTEMP 110	
Cell counter	Nexcelcom	Cellometer Auto2000	
Microscope	Olympus	Olympus CKX41	
Cell Separation			
MS columns	Miltenyi Biotec	130-042-201	
Cell separator	Miltenyi Biotec	130-042-109	
30 µm pre-separation filters	Miltenyi Biotec	130-041-40	
Multistand	Miltenyi Biotec	130-042-303	
15 ml safe-lock conical tubes	Any Vendor		
MACS buffer			(0.5% bovine serum albumin, 2 mM EDTA and 1X PBS)
Reagents			
FcR Blocking	Miltenyi Biotec	130-059-901	(Fc Block)

Anti-human cell surface antigen antibodies	BD Biosciences		(Table 1)
Bovine serum albumin	Sigma	A7906	
LIVE/DEAD viability dye	BD Biosciences	564406	
Lyse/Fix buffer	BD Biosciences	346202	
FACS buffer			(0.1% BSA, 0.05% Sodium Azide, and 1X PBS, pH=7.4)
Staining buffer	BD Biosciences	554656	
Trypan Blue solution 0.4%	Life Technologies	15250-011	
Ficoll	GE Healthcare	17-1440-02	20% density gradient media (1.077 + 0.001 g/ml)
Additional Instruments			
Incubator with shaker	Thermo Scientific	MAXQ 4450	
Flow cytometer	BD Biosciences	LSR-Fortessa	
Centrifuge	Beckman Coulter	SpinChron DLX	
Vacuum system	Any vendor		
Automatic tissue dissociator	Miltenyi Biotec	gentleMACS Dissociator	