

Materials List for

An Assay for Quantifying Antibody-Mediated Phagocytosis of Parasite-Infected Erythrocytes

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Materials

Name	Company	Catalog Number	Comments
96 well cell culture plates, round bottom with lid	Corning	3799	Any similar plate can be used, make sure it is compatible with the flow cytometer instrument you intend to use
AlbuMAX-II	Gibco	11021-037	
AlbuMAX-II (5%)	-	-	5% AlbuMAX-II (Gibco, 11021-037), 0.2g/L hypoxanthine (Sigma, H9377) in RPMI1640 (Sigma, R5886)
Anti-Red Blood Cells antibody	Abcam	ab34858	Prepare aliquots and freeze a -20°C. Use one aliquot per experiment.
DPBS	Sigma	P8622	
Dynabeads Protein G	Invitrogen	10003D	
Ethidium bromide solution	Sigma	E1510	Prepare a stock solution at 0.1mg/mL in RPMI1640 (R5886). Store protected from light
FC500 flow cytometer	Beckman Coulter		Any flow cytometer supporting 96 well plate format and having the appropriate lasers/filters to measure EtBr fluorescence can be used.
Fetal Bovine Serum (FBS)	Gibco	10099-141	Heat inactivate before use.
FITC mouse anti-human CD16	BD Biosciences	555406 or 556618	
FITC mouse anti-human CD32	BD Biosciences	552883	
FITC mouse anti-human CD64	BD Biosciences	555527	
FlowLogic software	Inivai technologies		Any flow cytometry analysis can be used, for example FlowJo or Winlist
Gentamicin (10mg/mL)	Sigma	G1272	
Hypoxanthine	Sigma	H9377	
L-glutamine (200mM)	Sigma	G7513	
Lysing solution	-	-	15mM NH4Cl, 10mM NaHCO3, 1mM EDTA
MACS CS-column and accesories	Miltenyi Biotec	130-041-305	
Parasite culture medium	-	-	2mM L-glutamine (Sigma, G7513), 50µg/mL Gentamicin (Sigma, G1272), 0.5% AlbuMAX-II (AlbuMAX-II 5%) in RPMI1640 (Sigma, R5886)
Penicillin/Streptomycin (10000U and 10mg/mL)	Sigma	P0781	
RPMI-1640 medium	Sigma	R5886	

THP-1 culture medium	-	-	10%FBS (Gibco, 10099-141), 2mM L-glutamine (Sigma, G7513), 100U/mL Penicillin, 0.1mg/mL Streptomycin (Sigma, P0781) in RPMI1640 (Sigma, R5886)
Vario MACS magnet	Miltenyi Biotec		