

Materials List for:

## Bioenergetics and the Oxidative Burst: Protocols for the Isolation and Evaluation of Human Leukocytes and Platelets

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URL: <https://www.jove.com/video/51301>

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### Materials

Name	Company	Catalog Number	Comments
QuadroMACS Starting Kit includes QuadroMACS Separator and MACS MultiStand	Miltenyi Biotec	130-094-833	
CD235a (Glycophorin A) MicroBeads, human	Miltenyi Biotec	130-050-501	
CD61 MicroBeads, human for platelets	Miltenyi Biotec	130-051-101	
CD14 MicroBeads, human for monocytes	Miltenyi Biotec	130-050-201	
CD15 MicroBeads, human for granulocytes	Miltenyi Biotec	130-046-601	
LS Columns	Miltenyi Biotec	130-042-401	
BD Vacutainer ACD Blood collection tubes	Fisher	02-684-26	
RPMI 1640	Gibco	11835-030	with L-glutamine and without phenol red
Prostaglandin I2, sodium salt	Cayman	18220	
1.5 ml semi-micro cuvettes	Phenix Research Products	SC-2410	
Histopaque density gradient, specific gravity 1.077	Sigma	10771	
Histopaque density gradient, specific gravity 1.119	Sigma	11191	
Bovine Serum Albumin Fraction V	Roche	3117405001	fatty-acid ultra-free
Phorbol 12-myristate 13-acetate	Sigma	P8139	
XF24 FluxPak	Seahorse Biosciences	100850-001	
DMEM	Fisher	MT90113PB	w/o Glucose, L-Glutamine, Pyruvate, Phenol Red, and Bicarbonate
L-Glutamine, 200 mM (100x)	Invitrogen	25030-081	
D-Glucose	Sigma	G7528	
Sodium Pyruvate	Sigma	P8574	
Cell-Tak (cell adhesive)	BD Biosciences	CB-40242	
Oligomycin	Sigma	O4876	
Antimycin A	Sigma	A8674	
(FCCP) Carbonyl cyanide 4-(trifluoromethoxy)phenylhydrazone	Sigma	C-2920	
DC Protein Assay Reagent A	Bio-Rad	500-0113	

DC Protein Assay Reagent S	Bio-Rad	500-0015	
DC Protein Assay Reagent B	Bio-Rad	500-0114	
Seahorse	Seahorse Biosciences		
QuadroMACS Separator and MACS MultiStand	Miltenyi Biotec	130-090-976 and 24039	
Spectrophotometer			