

Materials List for:

Methods to Study Lipid Alterations in Neutrophils and the Subsequent Formation of Neutrophil Extracellular Traps

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URL: <https://www.jove.com/video/54667>

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Materials

Name	Company	Catalog Number	Comments
Neutrophil isolation, NET staining and quantification			
Alexa Flour 633 goat anti-rabbit IgG	Invitrogen	A-21070	
Anti-MPO α antibody	Dako	A0398	
BSA	Sigma-Aldrich	3912-100G	
Marienfeld-Neubauer improved counting chamber	Celeromics	MF-0640010	
Confocal microscope TCS SP5 AOBS with tandem scanner	Leica	DMI6000CS	
Dulbecco's PBS 10x	Sigma-Aldrich	P5493-1L	Dilute 1:10 in water for 1x working solution
Dy Light 488 conjugated highly cross-absorbed	Thermo Fisher Scientific	35503	
Excel	Microsoft	2010	
DNA/Histone 1 antibody	Millipore	MAB3864	
ImageJ	NIH	1.8	http://imagej.nih.gov/ij/
Light microscope	VWR	630-1554	
Methyl- β -cyclodextrin	Sigma-Aldrich	C4555-1G	
PFA	Carl Roth	0335.3	dissolve in water, heat up to 65 °C and add 1 N NaOH to clear solution
PMA	Sigma-Aldrich	P8139-1MG	Stock 16 μ M, dissolved in 1x PBS
Poly-L-lysine	Sigma-Aldrich	P4707	
Polymorphprep	AXIS-SHIELD	AN1114683	
ProLong Gold antifade reagent with DAPI	Invitrogen	P7481	
Quant-iT PicoGreen dsDNA Reagent	Invitrogen	P7581	
RPMI1640	PAA	E 15-848	
HBSS with CaCl and Mg	Sigma	H6648	
Triton X-100	Sigma-Aldrich	T8787-50ml	
Trypanblue	Invitrogen	15250-061	0.4% solution
Water	Carl Roth	3255.1	endotoxin-free

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Lipid isolation and analysis			
1-propanol	Sigma-Aldrich	33538	
10 µL syringe	Hamilton	701 NR 10 µl	
Diethyl ether	Sigma-Aldrich	346136	
Ethyl acetate	Carl Roth	7336.2	
Canulla 26 G	Braun	4657683	
Copper(II)sulphatepentahydrate	Merck	1027805000	
Chloroform	Carl Roth	7331.1	
CP ATLAS software	Lazarsoftware	2.0	
Chromolith HighResolution RP-18 endcapped 100-4.6 mm column	Merck	152022	
High Performance Liquid Chromatograph Chromaster	Hitachi	HITA 892-0080-30Y	Paramaters are dependent on individual HPLC machine
HPLC UV Detector	Hitachi	5410	
HPLC Column Oven	Hitachi	5310	
HPLC Auto Sampler	Hitachi	5260	
HPLC Pump	Hitachi	5160	
Methanol	Carl Roth	7342.1	
n-Hexane	Carl Roth	7339.1	
Phosphoric acid	Sigma-Aldrich	30417	
Potassium chloride	Merck	49,361,000	
Potters	LAT Garbsen	5 ml	
SDS	Carl Roth	CN30.3	
HPTLC silica gel 60	Merck	105553	
Vacufuge plus basic device	Eppendorf	22820001	
Corning Costar cell culture 48-well plate, flat bottom	Sigma	CLS3548	
Coverslip	Thermo Fisher Scientific	1198882	
Glass slide	Carl Roth	1879	
BD Tuberculin Syringe Only 1 mL	BD Bioscience	309659	