

Materials List for:

A High-Throughput Assay to Assess and Quantify Neutrophil Extracellular Trap Formation

Eline J. Arends¹, Laura S. van Dam¹, Tineke Kraaij¹, Sylvia W.A. Kamerling¹, Ton J. Rabelink¹, Cees van Kooten¹, Y.K. Onno Teng¹

¹Department of Nephrology, Leiden University Medical Center

Correspondence to: Y.K. Onno Teng at Y.K.O.Teng@lumc.nl

URL: <https://www.jove.com/video/59150>

DOI: [doi:10.3791/59150](https://doi.org/10.3791/59150)

Materials

Name	Company	Catalog Number	Comments
Aqua Sterile H2O	B. Braun, Melsungen, Germany	12604052	
Fetal bovine serum (FCS)	Bodinco, Alkmaar, The Netherlands		Used in high concentrations it could influence NET formation
Ficoll 5,7% - amidotrizoaat 9% density 1,077 g / mL	LUMC, Leiden, The Netherlands	97902861	
Immunofluorescence confocal microscope	Image Xpress Micro Confocal (Molecular Devices, Sunnyvale, CA, USA)		
Neutralization PBS (10x)	Gibco, Paisley, UK	70011-036	
Penicillin / streptomycin (p/s)	Gibco, Paisley, UK	15070063	
Phenol red free RPMI 1640 (1x)	Gibco, Paisley, UK	11835-063	Phenol red can interfere with the immunofluorescence signal
Phosphate-buffered saline (PBS)	B. Braun, Melsungen, Germany	174628062	
PKH26 2 uM Red fluorescent cell linker	Sigma Aldrich Saint-Louis, MO, USA	PKH26GL-1KT	PKH are patented fluorescent dyes and a cell labeling technology named after their discoverer Paul Karl Horan
Program for scientific multidimensional images analysis	ImageJ, Research Services Branch, National Institute of Mental Health, Bethesda, Maryland, USA		
RPMI medium 1640 (1x)	Gibco, Paisley, UK	52400-025	
Sytox green 5 mM Impermeable DNA dye	Gibco, Paisley, UK	57020	
Trypan blue stain 0,4%	Sigma Aldrich, Germany	17942E	
96 well, black, flat bottom, tissue culture treated plate	Falcon, NY, USA	353219	