

Automated Imaging and Analysis for the Quantification of Fluorescently Labeled Macropinosomes

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Citation

 Galenkamp, K.M.O., Galapate, C.M., Zhang, Y., Commisso, C. Automated Imaging and Analysis for the Quantification of Fluorescently Labeled Macropinosomes. *J. Vis. Exp.* (174), e62828, doi:10.3791/62828 (2021).

Date Published

August 24, 2021

DOI

10.3791/62828

URL

jove.com/video/62828

Materials

Name	Company	Catalog Number	Comments
0.25% Trypsin	Corning	25053CI	0.1% EDTA in HBSS w/o Calcium, Magnesium and Sodium Bicarbonate
1.5 mL Microcentrifuge tube	Fisherbrand	05-408-129	
10-cm Tissue culture dish	Greiner Bio-One	664160	CELLSTAR
15 mL Centrifuge tube	Fisherbrand	07-200-886	
2 L Beaker	Fisherbrand	02-591-33	
24-well Tissue culture plate	Greiner Bio-One	662160	CELLSTAR
25 mL Reagent reservoir	Genesee Scientific Corporation	28-121	
500 mL Beaker	Fisherbrand	02-591-30	
6-cm Tissue culture dish	Greiner Bio-One	628160	CELLSTAR
8-Channel aspiration adapter	Integra Biosciences	155503	
8-Channel aspiration adapter for standard tips	Integra Biosciences	159024	
95% Ethanol	Decon Laboratories Inc	4355226	
Ammonia-free glass cleaner	Sparkle	FUN20500CT	
Black 96-well high-content screening microplate	PerkinElmer	6055300	CellCarrier-96 Ultra
Cotton-tipped applicator	Fisherbrand	23-400-101	
Coverslips	Fisherbrand	12-545-80	12 mm diameter
Cytation 5 Cell Imaging Multi-Mode Reader	Biotek	CYT5FW	
DAPI	Millipore Sigma	5.08741	
Dextran 70 kDa - FITC	Life Technologies	D1822	Lysine-fixable
Dextran 70 kDa - TMR	Life Technologies	D1819	
DMSO	Millipore Sigma	D1435	
DPBS	Corning	21031CV	Without Calcium and Magnesium
Forceps	Fine Science Tools	11251-20	Dumont #5
Formaldehyde, 37%	Ricca Chemical	RSOF0010-250A	ACS Reagent Grade
Glycerol	Fisher BioReagents	BP229-1	

Hardening fluorescence mounting media	Agilent Tech	S302380-2	DAKO
Hoechst 33342	Millipore Sigma	B2261	
Hydrochloric acid (HCl)	Fisher Chemical	A144-212	Certified ACS Plus, 36.5%–38.0%
Lint-free wipes	Kimberly-Clark	34155	Kimwipes
Microscope slides	Fisherbrand	12-544-1	Premium plain glass
Multichannel pipette	Gilson	FA10013	8 channels, 0.5–10 μ L
Multichannel pipette	Gilson	FA10012	12 channels, 20–200 μ L
Multichannel pipette	Gilson	FA10011	8 channels, 20–200 μ L
Parafilm M	Pechiney	PM996	
Plastic wrap	Kirkland Signature	208733	Stretch-Tite
Silicone isolators	Grace Bio Labs Inc	664107	13 mm Diameter X 0.8 mm Depth ID, 25 mm X 25 mm
Slide adapter	Biotek	1220548	
Wash bottle	Fisherbrand	FB0340922C	