

Materials List for:

# Imaging the Neutrophil Phagosome and Cytoplasm Using a Ratiometric pH Indicator

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## Materials

Name	Company	Catalog Number	Comments
<i>Candida albicans</i> ATCC 10231 Vitroids 80 CFU	Sigma-Aldrich	RQC14003-10EA	Place directly on a spread agar plate according to the manufacturer's instructions
YPD broth	Sigma-Aldrich	Y1375	Follow manufacturer's instructions, various providers exist
Dextran Clinical grade MW = 200,000-300,000	MP Biomedicals	2101514	Use gloves
Heparin Sodium solution for infusion (preservative free), 1,000 IU/mL	Fannin, Wockhardt UK Ltd	FP1077	We purchased from UCH inpatient pharmacy
SNARF-1 Carboxylic Acid, Acetate, Succinimidyl Ester - Special Packaging	Thermo Scientific/Invitrogen	SS22801	Use gloves
5-(and-6)-Carboxy SNARF-1, Acetoxymethyl Ester, Acetate	Thermo Scientific/Invitrogen	C1272	Use gloves
Vivaglobin human IgG 160 mg/mL solution	CSL Behring	received as a gift	Various providers exist
Normal mouse serum	Abcam	ab7486	Various providers exist
Lymphoprep (density gradient medium)	Alere Ltd	1114547	Keep sterile and away from direct sunlight, can be substituted by Ficoll-Paque
Nigericin	Sigma-Aldrich	N7143	Toxic, use gloves, various providers exist
Saponin	Sigma-Aldrich	47036	Toxic, use gloves, various providers exist
Dimethyl sulphoxide (DMSO)	Sigma-Aldrich	D8418	Toxic, use gloves, various providers exist
4-(2-Hydroxyethyl)piperazine-1-ethanesulfonic acid (HEPES)	Sigma-Aldrich	H3375	Various providers exist
Tris(hydroxymethyl)aminomethane (Tris)	Sigma-Aldrich	T1503	Various providers exist
Potassium chloride (KCl)	Sigma-Aldrich	P9333	Various providers exist
Sodium chloride (NaCl)	Sigma-Aldrich	S7653	Various providers exist
Magnesium chloride (MgCl <sub>2</sub> )	Sigma-Aldrich	M8266	Various providers exist
Magnesium sulphate (MgSO <sub>4</sub> )	Sigma-Aldrich	M7506	Various providers exist
Potassium dihydrogen phosphate (KH <sub>2</sub> PO <sub>4</sub> )	Sigma-Aldrich	P9791	Various providers exist
Calcium chloride (CaCl <sub>2</sub> )	Sigma-Aldrich	C1016	Various providers exist
Glucose	Sigma-Aldrich	D9434	Various providers exist

Absolute Ethanol	Sigma-Aldrich	2860	Various providers exist
Diphenylene iodonium (DPI)	Sigma-Aldrich	D2926	Various providers exist
Zinc chloride	Sigma-Aldrich	208086	Various providers exist, do not dilute in phosphate based buffers as it will precipitate
Poly L lysine	Sigma	P4707	Various providers exist
Laser scanning confocal microscope (Zeiss LSM 700)	Carl Zeiss		The microscope must be able to excite at 555 nm and measure emission at two channels simultaneously (560-600 nm, >610 nm)
Ibidi $\mu$ slide 8 well ibiTreat	Thistle Scientific	IB-80826	Other appropriate imaging dishes can be substituted
Soniprep 150	MSE		Any appropriate sonicator will suffice
TC20 Automated Cell Counter	BioRad		Various providers exist
1.5 mL Protein LoBind Tubes	Sigma-Aldrich	Z666505-100EA	Specially used as <i>Candida</i> can stick to normal eppendorfs