

Materials List for:

Live Imaging of Antifungal Activity by Human Primary Neutrophils and Monocytes in Response to *A. fumigatus*

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URL: <https://www.jove.com/video/55444>

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Materials

Name	Company	Catalog Number	Comments
Glycerol	Sigma	G6279	http://www.sigmaaldrich.com
T75 flask	Greiner Bio-One	658 175	http://www.greinerbioone.com/
PBS	Gibco	20012-019	https://www.thermofisher.com/
Tween-80	Fisher Scientific	10592955	https://nl.fishersci.com/
40 µm filter	Thermo Fisher Scientific	22363547	https://www.thermofisher.com/
15 mL Falcon tube	Greiner Bio-One	188 261	http://www.greinerbioone.com/
50 mL Falcon tube	Greiner Bio-One	227 261	http://www.greinerbioone.com/
MilliQ	Millipore	QGARD00R1	Nanopure water works similarly. http://www.merckmillipore.com/
Biotin	Molecular Probes	B-6352	https://www.thermofisher.com/uk/en/home/brands/molecular-probes.html
DMSO	Sigma	D5879	http://www.sigmaaldrich.com
Streptavidin-AF633	Molecular Probes	S-21375	AF633 is the only tested fluorophore so far that remains visible in phagosomes. https://www.thermofisher.com/uk/en/home/brands/molecular-probes.html
EDTA blood tubes	Greiner Bio-One	455036	Any blood tubes with an anti-coagulating agent should work. http://www.greinerbioone.com/en/start/
Ficoll-Paque Plus	GE Healthcare	17-1440-03	http://www3.gehealthcare.com/
Trypan blue	Thermo Fisher Scientific	SV3008401	https://www.thermofisher.com/
HBSS	Gibco	14170112	https://www.thermofisher.com/uk/en/home/brands/gibco.html
CD14 microbeads	Mytenyi Biotec	130-050-201	Other monocyte isolation methods can be used as well, we prefer this method as it gives a consistent high purity of monocytes without being labor intensive. http://www.miltenyibiotec.com/en/
MS Columns	Mytenyi Biotec	130-042-201	See comment at CD14 microbeads. http://www.miltenyibiotec.com/en/
RPMI + Glutamax	Gibco	72400-021	https://www.thermofisher.com/uk/en/home/brands/gibco.html
CO ₂ independent medium	Thermo Fisher Scientific	18045054	Necessary if there is not sufficient CO ₂ exchange during imaging.

			https://www.thermofisher.com/uk/en/home
μ-slide 8 well glass bottom	Ibidi	80827	This is the imaging dish that we use, however any glass imaging dish of proper size should work. http://ibidi.com/
UltraVIEW VoX 3D Live Cell Imaging System	Perkin Elmer	L7267000	Includes velocity software for acquisition and analysis. http://www.perkinelmer.com/
Calcofluor white	Sigma	18909	http://www.sigmaaldrich.com/
Voriconazole	Sigma	PZ0005	http://www.sigmaaldrich.com/
BD LSRII	BD Biosciences		Flowcytometer used. https://www.bdbiosciences.com/