

Materials List for

High-Resolution Three-dimensional Whole-organ Tomography of Microbial Infections

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Materials

Name	Company	Catalog Number	Comments
Chemicals			
Agarose Low Melt	Roth	Art. 6351.5 25g	
Boric acid	Sigma-Aldrich	6768-500G	
Instant adhesive Loctite 435	Henkel		
Paraformaldehyde	Sigma-Aldrich	P6148	
Poly(ethylene glycol)	Sigma-Aldrich	P5413-1kg	
Polyvinylpyrrolidone	Sigma-Aldrich	PVP-100G	
Sodium borohydride	Sigma-Aldrich	71321-25g	
Sodium hydroxide	Merck	106453	
Sodium periodate	Sigma-Aldrich	311448-100G	
Sodium phosphate dibasic	Sigma-Aldrich	71640-250G	
Sodium phosphate monobasic dihydrate	Sigma-Aldrich	71500-1KG	
Sodium tetraborate	Sigma-Aldrich	221732-100g	
Sucrose	AppliChem	A4734,1000	
Tris-buffered saline (TBS)	Merck	T5912-1L	
Triton X-100	Sigma-Aldrich	9002-93-1	
Vacuum filtration 500	TPP	TPP99250	
Equipment			
Blade	Campden Instruments Limited	01-01-4692	
MAITAI Laser	Spectra-Physics		
Peel away plastic mold	Sigma-Aldrich	E6032-1CS	
TissueCyte 1000 tomograph	TissueVision		
Antibody/dyes			
DAPI	Merck	D9542-5MG	
Primary antibodies			
anti-LPS <i>Salmonella</i> , rabbit	Sifin	REF TS 1624	
anti-CD169-PE, clone 3D6.112	Biolegend	142403	

anti-Ly-6G-PE, clone 1A8	Biolegend	127608	
Secondary antibodies	Invitrogen		
chicken anti-rabbit Alexa 647	Invitrogen	A-21443	
Software	Company	Version	
Fiji	Image J	1.54g or later	
MATLAB	MathWorks	2017b/2018b or later	
Orchestrator (tomograph)	TissueVision		
Visualization software Imaris	Oxford Instruments	9.9.0 or later	