

Materials List for:

# Three-dimensional Imaging of Bacterial Cells for Accurate Cellular Representations and Precise Protein Localization

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URL: <https://www.jove.com/video/60350>

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## Materials

Name	Company	Catalog Number	Comments
50 nm fluorescent beads	Invitrogen	F8795	these are used to measure the blurring function of the microscope
Agarose	sigma-Aldrich	A9539	
Cotton Swab	Puritan Medical Products Company LLC	S304659	used to apply VaLaP
Cover Slips	VWR	16004-302	
Fiji	ImageJ	<a href="https://fiji.sc">https://fiji.sc</a>	used to crop cells
FM4-64	Invitrogen	LST3166	membrane dye used to stain cells
Huygens Software	Scientific Volume Imaging	Huygens essential or professional	Use to measure blurring function of microscope
Lanolin	Sigma-Aldrich	L7387	combine with paraffin and petroleum jelly to make VaLaP
LB growth medium	BD Difco	DF0446173	
M63 medium	US Biological	M1015	
MATLAB	Mathworks		Needed to run forward convolution scripts
Microscope Slides	Fisher	12-550-133	
NIS Elements	Nikon		
Paraffin	Sigma-Aldrich	327212	
Petroleum Jelly	Equate	49035-038-27	
Piezo z stage	Nikon	77011589	
Pipet tips -p200	USA Scientific	1111-0730	
Pipet tips- p10	USA Scientific	1111-3730	