

Optimized Production and Analysis of Recombinant Protein-Filled Vesicles from *E. coli*

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Materials

Name	Company	Catalog Number	Comments
Ampicillin	Melford	69-52-3	
Chloramphenicol	Acros Organics (ThermoFisher Scientific)	56-75-7	
<i>E. coli</i> BL21 (DE3)	Lab Stock	N/A	
<i>E. coli</i> DH10 β	Lab Stock	N/A	
Filters for microscope	Chroma		
FM4-64	Molecular Probes (Invitrogen)	T-3166	Dissolved in DMSO, stock concentration 2 mM
ImageJ	Open Source		Downloaded from: https://imagej.net/ij/index.html
Inverted microscope	Olympus		
Isopropyl β -D-1-thiogalactopyranoside (IPTG)	Melford	367-93-1	
Kanamycin sulphate	Gibco (ThermoFisher Scientific)	11815-024	
LED light source for microscope	Cairn Research Ltd		
Lysogeny Broth (LB) / LB agar	Lab Stock	N/A	10 g/L Tryptone; 10 g/L NaCl; 5 g/L Yeast Extract (1.5 g/L agar)
Metamorph imaging software	Molecular Devices		
MF-Millipore Membrane filter (0.1 μ m, MCE)	Merck	VCWP04700	
Millipore Express PLUS membrane filter (0.45 μ m, PES)	Merck	HPWP04700	
Phosphate buffered saline (PBS)	Lab Stock	N/A	
Plasmids allowing expression of protein of interest with different VNp amino terminal fusions	Addgene		https://www.addgene.org/Dan_Mulvihill/
Terrific Broth (TB)	Lab Stock	N/A	12 g/L Tryptone; 24 g/L Yeast Extract; 4 ml/L 10% glycerol; 17 mM KH ₂ PO ₄ 72 mM K ₂ HPO ₄