

Materials List for:

Measuring the Osmotic Water Permeability Coefficient (P_f) of Spherical Cells: Isolated Plant Protoplasts as an Example

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Materials

Name	Company	Catalog Number	Comments
KCl	Chem-Impex International	01247-1	http://www.chemimpex.com Any source, anal. grade
CaCl ₂	Merck	11718006	http://www.merck.com Any source, anal. grade
2-(N-morpholine)-ethanesulphonic acid (MES)	Sigma	15152002	http://www.sigmaaldrich.com Any source, anal. grade
D-Sorbitol	Sigma	18032003	http://www.sigmaaldrich.com Any source, anal. grade
Cellulase	Worthington, Lakewood, NJ, USA	LS002603	http://www.worthingtonbiochem.com
Pectolyase	Karlan, Phonix, AZ, USA	8006	http://www.karlan.com
Polyvinyl-pyrrolidone K 30 (PVP)	Sigma	81420	http://www.sigmaaldrich.com
Bovine Serum Albumin (BSA)	Sigma	A9418-5G	http://www.sigmaaldrich.com
Protamine sulphate	Sigma	P4380	http://www.sigmaaldrich.com
Poly-L-Lysine	Sigma	P8920	http://www.sigmaaldrich.com
Xylene cyanol	Sigma	X4126	http://www.sigmaaldrich.com
Silicone vacuum grease heavy	Merck	107921	https://merck-chemicals.co.id/chemicals/silicone-high-vacuum-grease-heavy/MDA_CHEM-107921/p_LMib.s1Oxr4AAAEvXHg49in.?SecurePage=true&SEO_ErrorPageOccurred=
Inverted microscope	Nikon	Eclipse TS100/TS100F	http://www.nikoninstruments.com
Peristaltic pump	BIO-RAD	EP-1 Econo Pump	http://www.bio-rad.com
Grayscale digital camera	Scion Corporation	CFW-1308M	http://www.scioncorp.com
CMU 1394 Camera Driver' plugin for ImageJ	Carnegie Mellon		http://www.cs.cmu.edu/~iwan/1394/download.html Free software
ImageJ	NIH		http://rsb.info.nih.gov/ij/ Free software
Econo Gradient Pump Fittings Kit	BIO-RAD	731-9006	http://www.bio-rad.com
Connectors, manifold	DirectMed		http://directmed.com/main/Plastic-Medical-Tubing-Connectors.html?ACTION=S
Burette infusion sets (columns)	Welford	IF-BR-001	http://www.welfordmedical.com/content.php?id=61
Tubing	TYGON	R-3603	http://www.usplastic.com

3M packaging Scotch tape 1", clear	Viking Industrial, UK	VKMONO25	http://www.vikingtapes.co.uk/c-428-vkmono-mono-filament-tape.aspx#.UuvqOfdy_8 any clear adhesive tape (sellotape, etc.) is likely to be OK
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