

Materials List for:

A Simplified Method for Ultra-Low Density, Long-Term Primary Hippocampal Neuron Culture

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Materials

Name	Company	Catalog Number	Comments
Neurobasal medium	Life Technologies	21103-049	Protect from light
B27 supplement	Life Technologies	17504-044	aliquot, store in 0.6ml size
GlutaMAX-I	Life Technologies	35050-061	dilute 100X
antibiotic-antimycotic (AA)	Life Technologies	15240-096	dilute 100X
Complete Culture medium			Neurobasal medium with 1X B27, 1X AA, 1X GlutaMAX-I
Wash medium			same as 'Neurobasal medium'
Feed medium			Neurobasal with 1X B27 supplement
DNase I	Sigma-Aldrich	D5025	prepare 100X stock at 0.6mg/ml
poly-D-lysine	Sigma-Aldrich	P6407	M.W. 70000-150000
borate buffer	Sigma-Aldrich	B6768 (boric acid); 71997(borax)	1.24g boric acid & 1.9g borax in 400ml H ₂ O, pH to 8.5 use HCl
12-mm round glass coverslips	Glasswarefabrik Karl Hecht GmbH	1001/12	No. 1 glass, purchase from Carolina Biological Supply
proFection transfection kit	Promega	E1200	see protocol for details
2X HEPES buffered saline (HBS)	Promega	E1200	see protocol for details
Syringe filter	Pall Corporation	4192	0.2um pore size
Endofree plasmid prep kit	Qiagen	12362	for preparation of transfection grade plasmid DNA
anti-MAP2 antibody	Millipore	MAB3418	mouse antibody, clone AP20
anti-p-Tau antibody	Millipore	AB10417	rabbit polyclonal antibody
anti-NR1 antibody	Millipore	MAB1586	mouse antibody, clone R1JHL
anti-GluR1 antibody	Millipore	AB1504	rabbit polyclonal antibody
Hank's balanced salt solution	ThermoFisher	14025092	500ml size