

Materials List for:

Measuring Near Plasma Membrane and Global Intracellular Calcium Dynamics in Astrocytes

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Materials

Name	Type	Company	Catalog Number	Comments
VWR® Micro Cover Slips, Round, No. 1	Tool	VWR international	48380-068	
Poly-D-lysine hydrobromide	Reagent	Sigma-Aldrich	P0899	
Laminin from Engelbreth-Holm-Swarm murine sarcoma basement membrane	Reagent	Sigma-Aldrich	L2020	
Earle's Balanced Salt Solution (EBSS) (1X), liquid	Reagent	Invitrogen	14155-063	
Minimum Essential Medium (MEM) (1X), liquid Contains Earle's salts, but no L-glutamine or phenol red	Reagent	Invitrogen	51200-038	
Penicillin-Streptomycin liquid	Reagent	Invitrogen	15140-122	
Sodium pyruvate solution	Reagent	Sigma-Aldrich	S8636	
HEPES solution 1 M	Reagent	Sigma-Aldrich	H0887	
N-2 Supplement (100X), liquid	Reagent	Invitrogen	17502-048	
Horse Serum, Heat-Inactivated	Reagent	Invitrogen	26050-088	
PAPAIN-022	Reagent	Worthington Biochemical	LK003178	
Neurobasal™ Medium (1X) Liquid without Phenol Red	Reagent	Invitrogen	12348-017	
B-27 Serum-Free Supplement (50X), liquid	Reagent	Invitrogen	17504-044	
L-Glutamine-200 mM (100X), liquid	Reagent	Invitrogen	25030-149	
Cell Strainers	Tool	BD Biosciences	352350	
BD Falcon Multiwell Flat-Bottom Plates with Lids, Sterile	Tool	BD Biosciences	353046	
NaCl	Reagent	Sigma-Aldrich	S7653	
KCl	Reagent	Sigma-Aldrich	P3911	
CaCl ₂ hexahydrate	Reagent	Sigma-Aldrich	21108	
MgCl ₂ hexahydrate	Reagent	Sigma-Aldrich	M2670	
HEPES free acid	Reagent	Sigma-Aldrich	H3375	
D-(+)-glucose	Reagent	Sigma-Aldrich	G7528	
Fluo-4, AM 1 mM solution in DMSO	Reagent	Invitrogen	F-14217	

Pluronic® F-127 20% solution in DMSO	Reagent	Invitrogen	P-3000MP	
Immersion Oil TYPE DF	Microscope	Cargill Labs	16242	
Open chamber for 25 mm round coverslips, 100 µl volume	Tool	Warner Instruments	64-0362 (RC-21BDW)	
P-2 platform for Series 20 chambers, non-heater	Tool	Warner Instruments	64-0278 (P-2)	
FluoSpheres carboxylate-modified microspheres, 0.1 µm, yellow-green fluorescent (505/515) 2% solids	Reagent	Invitrogen	F8803	