

Materials List for:

Designing Porous Silicon Films As Carriers of Nerve Growth Factor

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Materials

Name	Company	Catalog Number	Comments
Acetone	Gadot	830101375	
Amphotericin	Biological Industries	03-028-1B	
Aqueous HF (48%)	Merck	101513	
AZ4533 photoresist	Metal Chem, Inc.	AZ4533	
BSA fraction v	MP biomedicals	0216006950	
BSA solution (10%)	Biological Industries	03-010-1B	
Collagen type I	Corning Inc.	354236	
Collagenase	Enco	LS004176	
Collagen-coated plastic coverslips	NUNC Thermanox	1059846	
D-(+)-glucose	Sigma-Aldrich Chemicals	G8170	
Dispase-II	Sigma-Aldrich Chemicals	4942078001	
Donkey anti mouse IgG H&L conjugated Alexa Fluor 488	Abcam	ab150073	
Ethanol absolute (99.9%)	Merck	818760	
FBS	Biological Industries	04-121-1A	
Formaldehyde/glutaraldehyde (2.5%) in 0.1 M sodium cacodylate	Electron Microscopy Sciences	15949	
Freon	Sigma-Aldrich Chemicals	613894	
Guanidine-HCl	Sigma-Aldrich Chemicals	G7294	
Ham's F-12 nutrient mixture	Thermo Scientific	11765054	
HBSS	Thermo Scientific	14185-045	
HEPES (1M)	Thermo Scientific	15630-056	
HS	Biological Industries	04-124-1A	
Human β -NGF ELISA Development Kit	Peprtech	900-K60	
Immunount solution	Thermo Scientific	9990402	
L-15 medium	Sigma-Aldrich Chemicals	L5520	
Laminin	Thermo Scientific	23017015	
L-glutamine	Biological Industries	03-020-1A	
Mouse anti neurofilament H (NF-H) (phosphorylated antibody) antibody	BioLegend	SMI31P	
Murine β -NGF	Peprtech	450-34-20	
Normal donkey serum (NDS)	Sigma-Aldrich Chemicals	G9023	
Papain	Sigma-Aldrich Chemicals	p-4762	

Paraformaldehyde 16% solution	Electron Microscopy Sciences	BN15710	
PBS (pH 7.4)			prepared by dissolving 10 mM Na ₂ HPO ₄ , 1.8 mM KH ₂ PO ₄ , 137 mM NaCl and 2.7 mM KCl in double-distilled water (ddH ₂ O, 18 MΩ).
PBS X10	Biological Industries	02-020-1A	
PC12 cell line	ATCC	CRL-1721	
Penicillin–streptomycin	Biological Industries	03-032-1B	
Percoll	Sigma-Aldrich Chemicals	p1644	
Poly-L-lysine	Sigma-Aldrich Chemicals	P4832	
PrestoBlue reagent	Thermo Scientific	A13261	
RPMI medium	Biological Industries	01-100-1A	
Si wafer	Siltronix Corp.		Highly-B-doped, p-type, 0.00095 Ω-cm resistivity, <100> oriented
Sodium azide	Sigma-Aldrich Chemicals	S2002	
Sodium hydroxide (NaOH)	Sigma-Aldrich Chemicals	S8045	
Tannic acid	Sigma-Aldrich Chemicals	403040	
Triton X-100	Chem-Impex International Inc.	1279	