

Materials List for:

Photopatterning Proteins and Cells in Aqueous Environment Using TiO₂ Photocatalysis

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Materials

Name	Company	Catalog Number	Comments
Glass coverslip	Warner Instruments	CS-15R15	15 mm diameter, #1.5 thickness
Diamond scribe	Ogura Jewel Industry	D-Point Pen	
RF sputtering system	ANELVA	SPC350	
TiO ₂ sputtering target	Kojundo Chemical Lab	Titanium (IV) oxide, target	Purity, 99.9%
Plasma reactor	Yamato	PR301	
n-octadecyltrichlorosilane (OTS)	Aldrich	104817	
Toluene	Wako	204-01866	
Tissue-culture dish (35 mm)	Greiner	627160	
Tissue-culture dish (60 mm)	BD Falcon	353002	
Type-IV collagen	Nitta Gelatin	Cellmatrix Type IV	
D-PBS	Gibco	14190-144	
Dulbecco's modified Eagle's medium (DMEM)	Gibco	11885-084	
Fetal bovine serum	Gibco	12483-020	Heat-inactivate and pass through a 0.22 µm filter before use
Horse serum	Gibco	26050-088	Pass through a 0.22 µm filter before use
Penicillin-streptomycin (100x)	Nacalai tesque	26253-84	
7S nerve growth factor (NGF)	Alomone Labs	N-130	
Bovine serum albumin (BSA)	Sigma	A2153	
EDTA	Dojindo	N001	Stock solution in 0.5 M
TiO ₂ nanoparticle	Tayca	TKD-701	