

Materials List for:

A Polyaniline-based Sensor of Nucleic Acids

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Materials

Name	Company	Catalog Number	Comments
Aniline	Fisher Scientific	A7401-500	ACS, liquid, refrigerated
Ammonium peroxydisulfate	Fisher Scientific	A682-500	ACS, crystalline
Sodium dodecylbenzene sulfonate	Pfaltz & Bauer	D56340	95% solid
Chloroform	Fisher Scientific	MCX 10601	Liquid
DNA primers	MWG operon	n/a	custom DNA sequence ~20 bps
Microplate	USA Scientific	1402-9800	96 well, polypropylene as it is unreactive to chloroform
Microplate Adhesive Film	USA Scientific	2920-0000	Reduces well-to-well contamination, sample spillage and evaporation
Microscope Cover Glass	Fisher Scientific	12-544-D	PANI coated on UV irradiated cover glass
UV crosslinker	UVP	HL-2000	Energy: X100 $\mu\text{J}/\text{cm}^2$; Time: 2 min
Hybridization Oven	VWR	01014705 T	Temperature: 400 °C; with rocking for 15 min
Glass Apparatus	Fisher Scientific		Three necked round bottom flask for reaction; dropping funnel, stoppers, condenser, separating funnel
Microscope	Leica Microsystems	Leica IMC S80	Magnification 20X; Pseudo color 536 nm; Exposure 86 msec; Gain 1.0x; Gamma 1.6
Microplate Reader	Molecular Devices	89429-536	