

Materials List for:

Fabrication of a Functionalized Magnetic Bacterial Nanocellulose with Iron Oxide Nanoparticles

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Materials

Name	Company	Catalog Number	Comments
<i>Glucoacetobacter xylinus</i>	ATCC	700178	
Agar	Sigma Aldrich	A1296-500G	
D-Mannitol Bioxtra	Sigma Aldrich	M9546-250G	
Yeast Extract	BD Biosciences	212750	
Bacteriological Peptone	Sigma Aldrich	P0556	
Sodium Hydroxide, 50% Solution In Water	Sigma Aldrich	158127-100G	
Iron(III) Chloride Hexahydrate	Sigma Aldrich	236489-100G	
Ammonium Hydroxide	Macron Fine Chemicals	6665-46	
Poly(Ethylene Glycol), Average Mn 400	Sigma Aldrich	202398-250G	
Iron (II) chloride tetrahydrate	Sigma Aldrich	44939-250G	
Disposable Petri dish	Sigma Aldrich	BR452000	
Disposable Inoculating Loop	Fisher Scientific	22-363-604	
Anhydrous Calcium Sulfate	W.A. Hammond Drierite	13001	
High vacuum grease	Sigma Aldrich	Z273554-1EA	
Laboratory pipetting needle with 90° blunt ends	Sigma Aldrich	CAD7937-12EA	
pH test strips	Sigma Aldrich	P4786-100EA	
Round-bottom three neck angle type distilling flask	Sigma-Aldrich	CLS4965250	
Silicone oil for oil baths	Sigma-Aldrich	85409-250ML	
Drying Tube	Chemglass	CG-1295-01	
Septum Stopper, Sleeve Type	Chemglass	CG-3022-98	
Magnetic stir bar	Chemglass	CG-2001-05	
Condenser	Chemglass	CG-1218-01	
Temperature Controller	BriskHeat	SDC120JC-A	
Stirring Hotplate	Fisher Scientific	11-100-49SH	
Comet Assay Kit	Trevigen	4250-050-K	
SYBR Gold Nucleic Acid Gel Stain	Life Technologies	S-11494	

bio-AFM	JPK Instruments	NanoWizard 4a BioScience AFM	
Nanoindenter	Micro Materials Ltd	Multi-module mechanical tester	
Scanning electron microscopy (SEM)	Hitachi High Technologies America	Hitachi S-4800	