

Materials List for:

Development of an Electrochemical DNA Biosensor to Detect a Foodborne Pathogen

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URL: <https://www.jove.com/video/56585>

DOI: [doi:10.3791/56585](https://doi.org/10.3791/56585)

Materials

Name	Company	Catalog Number	Comments
Acetic acid	Merck	100056	
Chloroform	Merck	102445	
Diaminoethane tetraacetic acid	Promega	E5134	
Dibasic sodium phosphate	Sigma-Aldrich	S9763	
Disodium hydrogen phosphate	Sigma-Aldrich	255793	
Ethanol	Sigma-Aldrich	16368	
Gold (III) chloride trihydrate	Sigma-Aldrich	520918	
Hydrochloric acid	Merck	100317	
Methylene blue	Sigma-Aldrich	M44907	
Monobasic sodium phosphate, monohydrate	Sigma-Aldrich	S3522	
Phosphate-buffered saline	Sigma-Aldrich	P5119	
Poly(lactic acid) resin, commercial grade 4042D	NatureWorks	4042D	
Potassium chloride	R&M Chemicals	59435	
Potassium dihydrogen phosphate	Sigma-Aldrich	P9791	
Potassium hexacyanoferrate III	R&M Chemicals	208019	
Sodium acetate anhydrous salt	Sigma-Aldrich	S2889	
Sodium chloride	Sigma-Aldrich	S9888	
Trisodium citrate	Sigma-Aldrich	S1804	
Tris(hydroxymethyl) aminomethane	Fisher Scientific	T395-100	
Tris-Base	Fisher Scientific	BP152-500	
2X PCR Master Mix with Dual-Dye	Norgen Biotek	28240	
Agarose gel	Merck	101236	
Bolton Agar	Merck	100079	
Bolton Broth	Merck	100079	
CHROMagar Vibrio	CHROMagar	VB910	
dNTPs	Promega	U1511	
Nuclease-free water	Thermo Scientific	R0581	
Eosin methylene blue agar	Merck	101347	
GelRed	Biotium	41001	
Glycerol	Merck	104092	

Go Taq Buffer	Promega	M7911	
Loading dye 100 bp DNA ladder	Promega	G2101	
Loading dye 1kb DNA ladder	Promega	G5711	
Magnesium chloride	Promega	91176	
Mannitol egg yolk polymyxin agar	Merck	105267	
McConkey Agar	Merck	105465	
Nutrient Broth	Merck	105443	
Taq polymerase	Merck	71003	
Trypticase Soy Broth	Merck	105459	
Trypticase Soy Agar	Merck	105458	