

Materials List for:

Manufacturing of a Nafion-coated, Reduced Graphene Oxide/Polyaniline Chemiresistive Sensor to Monitor pH in Real-time During Microbial Fermentation

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Materials

Name	Company	Catalog Number	Comments
Graphite flakes	Sigma Aldrich		
Sulfuric acid (H ₂ SO ₄)	Merck		
Sodium nitrite (NaNO ₂)	Sigma Aldrich		
Potassium permanganate (KMnO ₄)	Sigma Aldrich		
30 % H ₂ O ₂	Sigma Aldrich		
HCL	Merck		
Aniline	Sigma Aldrich		
5wt % Nafion	Sigma Aldrich		
M17 powder	BD Difco		
Phosphoric acid (H ₃ PO ₄)	Sigma Aldrich		
Boric acid (HBO ₃)	Merck		
Acetic acid	Merck		
Sodium Hydroxide	Sigma Aldrich		
Potassium dihydrogen phosphate	Sigma Aldrich		
Dipotassium hydrogen phosphate	Sigma Aldrich		
Au Interdigitated electrodes	BVT technology - CC1 W1		
Potentiostat	CH Instruments Inc (CH-600, CH-700)		