

Materials List for:

Extending the Lifespan of Soluble Lead Flow Batteries with a Sodium Acetate Additive

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Materials

Name	Company	Catalog Number	Comments
70 mm cellulose filter paper	Advance		
Autolab	Metrohm	PGSTA302N	
BT-Lab	BioLogic	BCS-810	
commercial carbon composite electrode	Homy Tech, Taiwan		Density 1.75 g cm ⁻³ , and electrical conductivity 330 S cm ⁻¹
Diamond saw	Buehler		
Hydrochloric Acid	SHOWA	0812-0150-000-69SW	35%
Lead (II) Oxide	SHOWA	1209-0250-000-23SW	98%
Lutropur MSA	BASF	50707525	70%
nickel plate	Lien Hung Alloy Trading Co., LTD., Taiwan,		99%
Potassium Nitrate	Scharlab	28703-95	99%
Scanning electron microscopy	JEOL	JSM-7800F	at accelerating voltage of 15 kV
Sodium Acetate	SHOWA	1922-5250-000-23SW	98%
water purification system	Barnstead MicroPure		18.2 MΩ • cm