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CERTIFICATE OF ANALYSIS

PRODUCT NAME: ECQUEU122CT

Mixture of MgSO4, CUPSA, CUCARB, CEC18 CHEMICAL: SILICA TYPE: Irregular particles 40-63 micron, 60 Angstroms 067301-TH LOT NUMBER:

		Specific	cation Values	Lot Analysis
<u>Test</u> Average Pore Size Surface Area (m ² /g)	Method SOP82-4.042 SOP82-4.042	Min 55Å 470	<u>Max</u> 65Å 530	60Å 496 m²/g
Pore Volume (cm ³ /g) Appearance MgSO4 (lot#223010-BO)	SOP82-4.042 Visual	0.70 White F	0.85 Fine Powder	0.73 cm ³ /g White Fine Powder
■ Total sorbent weight per tube (150mg)	Ignition	99.50% 143	100.5% 158	100.1% Conforms
CUPSA (lot#127180-GY) Carbon Analysis by Weight (Organic Loading)	SOP82-4.024	10.50%	12.50%	11.81%
Anion Exchange Total sorbent weight per tube (50mg)	SOP82-4.028	1.00 48	1.50 53	1.147 meq/g Conforms
CUCARB (lot#124111-EP) Graphitized carbon ■ Total sorbent weight per tube (50mg)	SOP82-4.042	48	53	133 m ² /g Conforms
CEC18 (lot#122021-CS) Carbon Analysis by Weight (Organic Loading)	SOP82-4.024	20.50%	22.70%	21.14
Endcapping Total sorbent weight per tube (50mg)	SOP82-4.027	0.00abs 48	0.90abs 53	0.610 abs Conforms

• All components of this product are individually weighed. The mass of each raw material meets method required tolerances.

The shelf life is only valid if the material is stored in the original unopened container. The specifications and lot analysis are only valid using the listed methods. The test methods and specifications were current when the product was lotted.

CERTIFIED BY: NAME: D. Kearns

TITLE: QC Analyst

Certificate issue DATE: 04/15/2022

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