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CERTIFICATE OF ANALYSIS

PRODUCT NAME: CHEMICAL: SILICA TYPE: LOT NUMBER: CUMPSCB2CT Mixture of MgSO4, CUPSA, CUCARB Irregular particles 40-63 micron, 60 Angstroms 039867-DF

		Specification Values		Lot Analysis
TestAverage Pore SizeSurface Area (m^2/g) Pore Volume (cm^3/g) Appearance	<u>Method</u> SOP82-4.042 SOP82-4.042 SOP82-4.042 Visual	<u>Min</u> 55Å 470 0.70 White F	<u>Max</u> 65Å 530 0.85 Fine Powder	60Å 508 m ² /g 0.79 cm ³ /g White Fine Powder
MgSO4 (lot#814160-BD) Assay • Total sorbent weight per tube (150mg)	Ignition	99.50% 143	100.5% 158	99.90% Conforms
CUPSA (lot#818011-GD) Carbon Analysis by Weight (Organic Loading)	SOP82-4.024	10.50%	12.50%	11.00%
Anion ExchangeTotal sorbent weight per tube (50mg)	SOP82-4.028	1.00 48	1.50 53	1.119 meq/g Conforms
 CUCARB (lot#819260-DT) Graphitized carbon (Surface area) Total sorbent weight per tube (50mg) 	SOP82-4.042	48	53	133m²/g 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: L. Bender

TITLE: QC ANALYST

Certificate issue DATE: 02/20/2019

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