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CERTIFICATE OF ANALYSIS

PRODUCT NAME: CHEMICAL: SILICA TYPE: LOT NUMBER:

ECMS12CPSA415CT Mixture of MgSO4, CUPSA Irregular particles 40-63 micron, 60 Angstroms 040817-DF

		Specification Values		<u>Lot Analysis</u>
<u>Test</u> Average Pore Size Surface Area (m^2/g) Pore Volume (cm^3/g)	<u>Method</u> SOP82-4.042 SOP82-4.042 SOP82-4.042	<u>Min</u> 55Å 470 0.70	<u>Max</u> 65Å 530 0.85	60Å 520 m ² /g 0.79 cm ³ /g
Appearance MgSO4 (lot#814160-BD)	Visual	White F	Fine Powder	White Fine Powder
AssayTotal sorbent weight per tube (1200mg)	Ignition	99.50% 1140	100.5% 1260	99.90% Conforms
CUPSA (lot#818011-GD) Carbon Analysis by Weight	SOP82-4.024	10.50%	12.50%	11.00%
(Organic Loading)Anion ExchangeTotal sorbent weight per tube (400mg)	SOP82-4.028	1.00 380	1.50 420	1.119meq/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: D. Kearns

TITLE: QC ANALYST

Certificate issue DATE: 03/29/2019

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