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CERTIFICATE OF ANALYSIS

PRODUCT NAME: CHEMICAL: SILICA TYPE: LOT NUMBER:

CUMPS2CT Mixture of MgSO4, CUPSA Irregular particles 40-63 micron, 60 Angstroms 041194-DG

		Specification Values		<u>Lot Analysis</u>
Test	<u>Method</u>	<u>Min</u> 55Å	<u>Max</u> 65Å	
Average Pore Size	SOP82-4.042			60Å
Surface Area (m^2/g)	SOP82-4.042	470	530	$520 \text{ m}^2/\text{g}$
Pore Volume (cm^3/g)	SOP82-4.042	0.70	0.85	$0.78 \text{ cm}^{3}/\text{g}$
Appearance	Visual	White Fine Powder		White Fine Powder
MgSO4 (lot#919010-BE)				
Assay	Ignition	99.50%	100.5%	100.0%
• Total sorbent weight per tube (150mg)		143	158	Conforms
CUPSA (lot#818011-GD)				
Carbon Analysis by Weight (Organic Loading)	SOP82-4.024	10.50%	12.50%	11.00%
Anion Exchange	SOP82-4.028	1.00	1.50	1.12 meq/g
• Total sorbent weight per tube (50mg)		48	53	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: 04/16/2019

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