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## **CERTIFICATE OF ANALYSIS**

**PRODUCT NAME:** CHEMICAL: SILICA TYPE: LOT NUMBER:

CUMPSC18CT Mixture of MgSO4, CUPSA, CEC18 Irregular particles 40-63 micron, 60 Angstroms 00002809-BE

		Specification Values		Lot Analysis
Test Average Pore Size Surface Area (m <sup>2</sup> /g) Pore Volume (cm <sup>3</sup> /g) Appearance MgSO4 (lot#919010-BE) Assay	Method SOP82-4.042 SOP82-4.042 SOP82-4.042 Visual Ignition	Min 55Å 470 0.70 White F 99.50%	<u>Max</u> 65Å 530 0.85 Vine Powder 100.5%	60Å 530 m <sup>2</sup> /g 0.75 cm <sup>3</sup> /g White Fine Powder 100.0%
• Total sorbent weight per tube (150mg)		143	158	Conforms
CUPSA (lot#811101-GC) Carbon Analysis by Weight (Organic Loading)	SOP82-4.024	10.50%	12.50%	11.27%
<ul><li>Anion Exchange</li><li>Total sorbent weight per tube (50mg)</li></ul>	SOP82-4.028	1.00 48	1.50 53	1.270meq/g Conforms
CEC18 (lot#819211-BI)				
Carbon Analysis by Weight (Organic Loading)	SOP82-4.024	20.50%	22.70%	20.89%
<ul><li>Endcapping</li><li>Total sorbent weight per tube (50mg)</li></ul>	SOP82-4.027	0.00abs 48	0.90abs 53	0.774abs 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: 03/01/2019

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