2731 Bartram Road
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## **CERTIFICATE OF ANALYSIS**

**PRODUCT NAME:** CUMPSGGC182CT

CHEMICAL: Mixture of MgSO4, CUPSA, EEC18, ChloroFiltr SILICA TYPE: Irregular particles 40-63 micron, 60 Angstroms LOT NUMBER: 043761-AB

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Test Method Min Max	
Average Pore Size SOP82-4.042 55Å 65Å 60Å	
Surface Area (m²/g) SOP82-4.042 470 530 530 m²/g	
Pore Volume (cm $^{3}/g$ ) SOP82-4.042 0.70 0.85 0.75 cm $^{3}/g$	
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#817221-GE)	
Carbon Analysis by Weight SOP82-4.024 10.50% 12.50% 11.40%	
(Organic Loading)	
Anion Exchange SOP82-4.028 1.00 1.50 1.041meq/g	
• Total sorbent weight per tube (50mg) 48 53 Conforms	
<b>EEC18</b> (lot#911310-BL)	
Carbon Analysis by Weight SOP82-4.024 20.50% 22.70% 21.11%	
(Organic Loading)	
Endcapping SOP82-4.027 0.00abs 2.00abs 1.061 abs	
• Total sorbent weight per tube (50mg) 48 53 Conforms	
Chloro Filtr® (lot#20180397) Conforms Conforms	
• 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: 07/10/2019

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