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## CERTIFICATE OF ANALYSIS

**PRODUCT NAME:**

CUMPSGG2CT

**CHEMICAL:**

Mixture of CUPSA, MgSO<sub>4</sub>, Chloro Filtr®

**SILICA TYPE:**

Irregular particles 40-63 micron, 60 Angstroms

**LOT NUMBER:**

041732-DH

|                                             |               | <u>Specification Values</u> |            | <u>Lot Analysis</u>     |
|---------------------------------------------|---------------|-----------------------------|------------|-------------------------|
| <u>Test</u>                                 | <u>Method</u> | <u>Min</u>                  | <u>Max</u> |                         |
| Average Pore Size                           | SOP82-4.042   | 55Å                         | 65Å        | 60Å                     |
| Surface Area (m <sup>2</sup> /g)            | SOP82-4.042   | 470                         | 530        | 520 m <sup>2</sup> /g   |
| Pore Volume (cm <sup>3</sup> /g)            | SOP82-4.042   | 0.70                        | 0.85       | 0.79 cm <sup>3</sup> /g |
| Appearance                                  | Visual        | White Fine Powder           |            | White Fine Powder       |
| <b>CUPSA (lot#817221-GE)</b>                |               |                             |            |                         |
| Carbon Analysis by Weight (Organic Loading) | SOP82-4.024   | 10.50%                      | 12.50%     | 11.00%                  |
| Anion Exchange                              | SOP82-4.028   | 1.00                        | 1.50       | 1.119meq/g              |
| ● Total sorbent weight per tube (50mg)      |               | 48                          | 53         | Conforms                |
| <b>MgSO4 (lot#919010-BE)</b>                |               |                             |            |                         |
| Assay                                       | Ignition      | 99.50%                      | 100.5%     | 100.0%                  |
| ● Total sorbent weight per tube (150mg)     |               | 143                         | 158        | Conforms                |
| <b>Chloro Filtr® (lot# 20180365)</b>        |               |                             |            |                         |
|                                             |               | 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:** D. Kearns

**TITLE:** QC ANALYST

**Certificate issue DATE:** 04/24/2019

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