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## CERTIFICATE OF ANALYSIS

**PRODUCT NAME:**

ECQUEU32CT

**CHEMICAL:**Mixture of MgSO<sub>4</sub>, CUPSA, CUCARB**SILICA TYPE:**

Irregular particles 40-63 micron, 60 Angstroms

**LOT NUMBER:**

073812-CZ

|  |               | <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        | 496m <sup>2</sup> /g    |
| Pore Volume (cm <sup>3</sup> /g)               | SOP82-4.042   | 0.70                        | 0.85       | 0.73 cm <sup>3</sup> /g |
| Appearance                                     | Visual        | White Fine Powder           |            | White Fine Powder       |
| <b>MgSO4</b> (lot#226040-BQ)                   |               |                             |            |                         |
| Assay  | Ignition      | 99.50%                      | 100.5%     | 100.1%                  |
| ● Total sorbent weight per tube (150mg)        |               | 143                         | 158        | Conforms                |
| <b>CUPSA</b> (lot#128290-GZ)                   |               |                             |            |                         |
| Carbon Analysis by Weight<br>(Organic Loading) | SOP82-4.024   | 10.50%                      | 12.50%     | 11.57%                  |
| Anion Exchange                                 | SOP82-4.028   | 1.00                        | 1.50       | 1.116meq/g              |
| ● Total sorbent weight per tube (25mg)         |               | 23.8                        | 26.3       | Conforms                |
| <b>CUCARB</b> (lot#225290-EU)                  |               |                             |            |                         |
| Graphitized carbon                             | SOP82-4.042   |                             |            | 133m <sup>2</sup> /g    |
| ● Total sorbent weight per tube (2.5mg)        |               | 2.38                        | 2.63       | 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:** 02/09/2023

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