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CERTIFICATE OF ANALYSIS

PRODUCT NAME: ECQU00915CT

CHEMICAL: Mixture of CUPSA, CEC18 SILICA TYPE: Irregular particles 40-63 micron, 60 Angstroms

LOT NUMBER: 070121-GZ

| | | Specification Values | | Lot Analysis |
|---|-------------|-----------------------------|------------|------------------------------|
| <u>Test</u> | Method | Min | <u>Max</u> | |
| Average Pore Size | SOP82-4.042 | 55Å | 65Å | 60Å |
| Surface Area (m ² /g) | SOP82-4.042 | 470 | 530 | $496 \text{ m}^2/\text{g}$ |
| Pore Volume (cm ³ /g) | SOP82-4.042 | 0.70 | 0.85 | $0.73 \text{ cm}^3/\text{g}$ |
| Appearance | Visual | White F | ine Powder | White Fine Powder |
| CUPSA (lot#128290-GZ) | | | | |
| Carbon Analysis by Weight (Organic Loading) | SOP82-4.024 | 10.50% | 12.50% | 11.81% |
| Anion Exchange | SOP82-4.028 | 1.00 | 1.50 | 1.147meq/g |
| • Total sorbent weight per tube (100mg) | | 95 | 105 | Conforms |
| CEC18 (lot#120321-CT) | | | | |
| Carbon Analysis by Weight | SOP82-4.024 | 20.50% | 22.70% | 21.28% |
| (Organic Loading) | | | | |
| Endcapping | SOP82-4.027 | 0.00abs | 0.90abs | 0.531abs |
| • Total sorbent weight per tube (100mg) | | 95 | 105 | 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: 08/017/2022

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