



2731 Bartram Road  
Bristol, PA 19007-6893  
800.385.3153  
www.unitedchem.com

## CERTIFICATE OF ANALYSIS

**PRODUCT NAME:** ECQUUS2215CT  
**CHEMICAL:** Mixture of ECSS (sodium sulfate), CUPSA, CEC18  
**SILICA TYPE:** Irregular particles 40-63 micron, 60 Angstroms  
**LOT NUMBER:** 043834-CY

<u>Test</u>	<u>Method</u>	<u>Specification Values</u>		<u>Lot Analysis</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	493 m <sup>2</sup> /g
Pore Volume (cm <sup>3</sup> /g)	SOP82-4.042	0.70	0.85	0.76 cm <sup>3</sup> /g
Appearance	Visual	White Fine Powder		White Fine Powder
<b>ECSS (lot#917220-CY)</b>				
Assay:		99.0%Min.		99.30%
● Total sorbent weight per tube (900mg)		855	945	Conforms
<b>CEC18 (lot#812121-BJ)</b>				
Carbon Analysis by Weight (Organic Loading)	SOP82-4.024	20.50%	22.70%	20.66%
Endcapping	SOP82-4.027	0.00abs	0.90abs	0.698abs
● Total sorbent weight per tube (100mg)		95	105	Conforms
<b>CUPSA (lot#916060-GH)</b>				
Carbon Analysis by Weight (Organic Loading)	SOP82-4.024	10.00%	11.50%	11.14%
Anion Exchange	SOP82-4.028	1.00	1.20	1.024meq/g
● 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:** 07/17/2019

2731 Bartram Road / Bristol, PA 19007 USA / Phone 215-781-9255 / Fax 215-785-1226Email:  
[info@unitedchem.com](mailto:info@unitedchem.com) Internet: [HTTP://www.unitedchem.com](http://www.unitedchem.com)