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## CERTIFICATE OF ANALYSIS

**PRODUCT NAME:** ECQUUS1215CT  
**CHEMICAL:** Mixture of MgSO<sub>4</sub>, CUPSA, CUFLS, CUALB  
**SILICA TYPE:** Irregular particles 40-63 micron, 60 Angstroms  
**LOT NUMBER:** 036238-BD

<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	508 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>MgSO<sub>4</sub> (lot#814160-BD)</b>				
Assay	Ignition	99.50%	100.5%	99.90%
● Total sorbent weight per tube (175mg)		166	184	Conforms
<b>CUPSA (lot#818011-GD)</b>				
Carbon Analysis by Weight (Organic Loading)	SOP82-4.024	10.00%	11.50%	11.00%
Anion Exchange	SOP82-4.028	1.00	1.20	1.119meq/g
● Total sorbent weight per tube (50mg)		47	53	Conforms
<b>CUFLS (lot#414011-CE)</b>				
Carbon Analysis by Weight (Organic Loading)	SOP82-4.024	Report Only		1.66%
● Total sorbent weight per tube (100mg)		95	105	Conforms
<b>CUALB (lot#111140-AL)</b>				
pH		8.5		9.5
● Total sorbent weight per tube (50mg)		47	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:** 02-14-2019

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