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## CERTIFICATE OF ANALYSIS

**PRODUCT NAME:** ECQUCHL215CT  
**CHEMICAL:** Mixture of CEC18, MgSO<sub>4</sub>, Chloro Filtr®  
**SILICA TYPE:** Irregular particles 40-63 micron, 60 Angstroms  
**LOT NUMBER:** 043275-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	493m <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>MgSO<sub>4</sub></b> (lot#919010-BE)				
Assay	Ignition	99.50%	100.5%	100.0%
● Total sorbent weight per tube (900mg)		855	945	Conforms
<b>CEC18</b> (lot#812121-BJ)				
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 (300mg)		285	315	Conforms
<b>Chloro Filtr®</b> (lot#20180397)				
● Total sorbent weight per tube (300mg)		Conforms	Conforms	Conforms
		285	315	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:** 06/20/2019

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