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## CERTIFICATE OF ANALYSIS

**PRODUCT NAME:** ECMSPSACB6  
**CHEMICAL:** MgSO<sub>4</sub>, (bottom layer), CUPSA (middle layer),  
CUCARB (top layer)  
**SILICA TYPE:** Irregular particles 40-63 micron, 60 Angstroms  
**LOT NUMBER:** 040729-AX

		<u>Specification Values</u>		<u>Lot Analysis</u>
<u>Test</u>	<u>Method</u>	<u>Min</u>	<u>Max</u>	
Appearance MgSO <sub>4</sub> (lot#513201-AX)	Visual	White Fine Powder		White Fine Powder
Assay	Ignition	99.50%	100.5%	100.0%
● Total sorbent weight per tube (750mg)		712	788	Conforms
<b>CUPSA (lot#818011-GD)</b>				
Carbon Analysis by Weight (Organic Loading)	SOP82.4024	10.50%	12.50%	11.00%
Anion Exchange	SOP82.4028	1.00	1.50	1.119 meq/g
● Total sorbent weight per tube (500mg)		475	525	Conforms
<b>CUCARB (816021-DU)</b>				
Graphitized carbon	SOP82.4042			133 m <sup>2</sup> /g
● Total sorbent weight per tube (250mg)		237	263	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:** 04/01/2019

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