



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

## 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:** 040424-AX

|                                                       |               | <u>Specification Values</u> |            | <u>Lot Analysis</u>   |
|-------------------------------------------------------|---------------|-----------------------------|------------|-----------------------|
| <u>Test</u>                                           | <u>Method</u> | <u>Min</u>                  | <u>Max</u> |                       |
| Appearance<br><b>MgSO<sub>4</sub></b> (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</b> (lot#815270-GB)                          |               |                             |            |                       |
| Carbon Analysis by Weight<br>(Organic Loading)        | SOP82.4024    | 10.50%                      | 12.50%     | 11.40%                |
| Anion Exchange                                        | SOP82.4028    | 1.00                        | 1.50       | 1.093 meq/g           |
| ● Total sorbent weight per tube (500mg)               |               | 475                         | 525        | Conforms              |
| <b>CUCARB</b> (811060-DS)                             |               |                             |            |                       |
| Graphitized carbon                                    | SOP82.4042    |                             |            | 128 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:** 03/18/2019

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