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CERTIFICATE OF ANALYSIS

PRODUCT NAME: CUMPS15C18CT

CHEMICAL: Mixture of MgSO4, CUPSA, CEC18

SILICA TYPE: Irregular particles 40-63 micron, 60 Angstroms

040022-NK LOT NUMBER:

		Specific	cation Values	Lot Analysis
Test Average Pore Size Surface Area (m²/g) Pore Volume (cm³/g) Appearance MgSO4 (lot#513201-AX)	Method SOP82-4.042 SOP82-4.042 SOP82-4.042 Visual	Min 55Å 470 0.70 White F	<u>Max</u> 65Å 530 0.85 Tine Powder	60Å 508 m²/g 0.79 cm³/g White Fine Powder
Assay • Total sorbent weight per tube (150mg) CUPSA (lot#519111-FK)	Ignition	99.50% 143	100.5% 158	100.0% Conforms
Carbon Analysis by Weight (Organic Loading)	SOP82-4.024	10.50%	12.50%	10.82%
Anion Exchange Total sorbent weight per tube (150mg)	SOP82-4.028	1.00 143	1.50 158	1.097meq/g Conforms
CEC18 (lot#517121-ZV)				
Carbon Analysis by Weight (Organic Loading)	SOP82-4.024	20.50%	22.70%	21.02%
EndcappingTotal sorbent weight per tube (50mg)	SOP82-4.027	0.00abs 48	0.90abs 53	0.657abs 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 MANAGER

Certificate issue DATE: 03/29/2019

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