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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

070267-NP LOT NUMBER:

		Specification Values		Lot Analysis
<u>Test</u>	Method	<u>Min</u>	Max	0
Average Pore Size	SOP82-4.042	55Å	65Å	60Å
Surface Area (m ² /g)	SOP82-4.042	470	530	$496 \text{ m}^2/\text{g}$
Pore Volume (cm ³ /g)	SOP82-4.042	0.70	0.85	$0.73 \text{ cm}^3/\text{g}$
Appearance	Visual	White F	ine Powder	White Fine Powder
MgSO4 (lot#121120-BL)				
Assay	Ignition	99.50%	100.5%	100.2%
• Total sorbent weight per tube (150mg)		143	158	Conforms
CUPSA (lot#128040-GU)				
Carbon Analysis by Weight (Organic Loading)	SOP82-4.024	10.50%	12.50%	11.13%
Anion Exchange	SOP82-4.028	1.00	1.50	1.108meq/g
• Total sorbent weight per tube (150mg)		143	158	Conforms
CEC18 (lot#125170-CP)				
Carbon Analysis by Weight (Organic Loading)	SOP82-4.024	20.50%	22.70%	21.25%
EndcappingTotal sorbent weight per tube (50mg)	SOP82-4.027	0.00abs 48	0.90abs 53	0.529abs Conforms
Total sorbein weight per tube (50mg)		+0	33	Comornis

[•] 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: 08/26/2022

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