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CERTIFICATE OF ANALYSIS

PRODUCT NAME: ECPSACB256

CHEMICAL: CUPSA (bottom layer), CUCARB (top layer)
SILICA TYPE: Irregular particles 40-63 micron, 60 Angstroms
LOT NUMBER: 042942-GE

		Specification Values		Lot Analysis
<u>Test</u>	Method	<u>Min</u>	Max	
Average Pore Size	SOP82-4.042	55Å	65Å	60Å
Surface Area (m ² /g)	SOP82-4.042	470	530	$493 \text{ m}^2/\text{g}$
Pore Volume (cm ³ /g)	SOP82-4.042	0.70	0.85	$0.76 \text{ cm}^3/\text{g}$
Appearance	Visual	White F	ine Powder	White Fine Powder
CUPSA (lot#817221-GE)				
Carbon Analysis by Weight (Organic Loading)	SOP82-4.024	10.50%	12.50%	11.40%
Anion Exchange	SOP82-4.028	1.00	1.50	1.041meq/g
• Total sorbent weight per tube (500mg)		475	525	Conforms
CUCARB (lot#811060-DS)				
Graphitized carbon (Surface area)	SOP82-4.042			$128m^2/g$
• 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: D. Kearns

TITLE: QC ANALYST

Certificate issue DATE: 06/18/2019

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