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CERTIFICATE OF ANALYSIS

PRODUCT NAME: ECPSACB506P

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

043298-GB

		Specification Values		Lot Analysis
<u>Test</u>	Method	<u>Min</u> 55Å	Max 65Å	-0 °
Average Pore Size Surface Area (m ² /g)	SOP82-4.042 SOP82-4.042	55A 470	65A 530	60Å $504 \text{ m}^2/\text{g}$
Pore Volume (cm ³ /g)	SOP82-4.042	0.70	0.85	$0.79 \text{ cm}^3/\text{g}$
Appearance	Visual	White F	ine Powder	White Fine Powder
CUPSA (lot#815270-GB)				
Carbon Analysis by Weight (Organic Loading)	SOP82-4.024	10.50%	12.50%	11.40%
Anion Exchange	SOP82-4.028	1.00	1.50	1.093meq/g
• Total sorbent weight per tube (500mg)		475	525	Conforms
CUCARB (lot#917050-DW)				
Graphitized carbon	SOP82-4.042			$133 \text{ m}^2/\text{g}$
• Total sorbent weight per tube (500mg)		475	525	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: 06/21/2019

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