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CERTIFICATE OF ANALYSIS

PRODUCT NAME: ECQUUS162CT

Mixture of MgSO4, CUPSA, CUCARB, CEC18 CHEMICAL: SILICA TYPE: Irregular particles 40-63 micron, 60 Angstroms 041153-CN LOT NUMBER:

		Specification Values		Lot Analysis
Test Average Pore Size Surface Area (m²/g) Pore Volume (cm³/g) Appearance MgSO4 (lot#919010-BE)	Method SOP82-4.042 SOP82-4.042 SOP82-4.042 Visual		Max 65Å 530 0.85 Fine Powder	60Å 520 m²/g 0.79 cm³/g White Fine Powder
Assay	Ignition	99.50%	100.5%	100.0%
• Total sorbent weight per tube (150mg)		142	158	Conforms
CUPSA (lot#818011-GD) Carbon Analysis by Weight (Organic Loading) Anion Exchange Total sorbent weight per tube (25mg)	SOP82-4.024 SOP82-4.028	10.00% 1.00 23.7	12.50% 1.50 26.3	11.00% 1.12meq/g Conforms
CUCARB (lot#819260-DT) Graphitized carbon ■ Total sorbent weight per tube (1.25mg)	SOP82-4.024	1.19	1.31	133 m ² /g Conforms
CEC18 (lot#812121-BJ) Carbon Analysis by Weight (Organic Loading) Endcapping	SOP82-4.024 SOP82-4.027	20.50% 0.00abs	22.70% 0.90abs	20.66% 0.698abs
 Total sorbent weight per tube (12.5mg) 	501 02-4.027	11.9	13.1	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: 04/04/2019

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