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## CERTIFICATE OF ANALYSIS

**PRODUCT NAME:** CUBCX1  
**CHEMICAL:** Benzenesulfonic Acid  
**SILICA TYPE:** Irregular particles 40-63 micron 60 Angstrom pores  
**LOT NUMBER:** 227130-EB

<u>Test</u>	<u>Method</u>	<u>Specification Values</u>		<u>Lot Analysis</u>
		<u>Min</u>	<u>Max</u>	
Appearance	Visual	White/Off white Powder		Conforms
Average Pore Size	SOP82-4.042	55Å	65Å	60Å
Surface Area (m <sup>2</sup> /g)	SOP82-4.042	470	530	504 m <sup>2</sup> /g
Pore Volume (cm <sup>3</sup> /g)	SOP82-4.042	0.70	0.85	0.73 cm <sup>3</sup> /g
Carbon Analysis by Weight (Organic Loading)	SOP82-4.024	9.28%	12.10%	9.90%
Cation Exchange	SOP82-4.025	0.307meq/g	0.341meq/g	0.34meq/g
Extraction	SOP82-4.011	85.00%	110.0%	passed

*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:** 10/03/2022

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