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## CERTIFICATE OF ANALYSIS

**PRODUCT NAME:** ECUNIC18  
**CHEMICAL:** OCTADECYL ENDCAPPED BONDED SILICA  
**SILICA TYPE:** Irregular particles 40-63 micron, 60 Angstrom pores  
**LOT NUMBER:** 042981-BL

| <u>Test</u>                                    | <u>Method</u> | <u>Specification Values</u> |            | <u>Lot Analysis</u>     |
|--|---------------|-----------------------------|------------|-------------------------|
|  |               | <u>Min</u>                  | <u>Max</u> |                         |
| Average Pore Size                              | SOP82-4.042   | 55Å                         | 65Å        | 60Å                     |
| Surface Area (m <sup>2</sup> /g)               | SOP82-4.042   | 470                         | 530        | 504m <sup>2</sup> /g    |
| Pore Volume (cm <sup>3</sup> /g)               | SOP82-4.042   | 0.70                        | 0.85       | 0.79 cm <sup>3</sup> /g |
| pH   | Supplier      | 6.5                         | 7.5        | 7.0                     |
| <b>EEC18</b>                                   |               |                             |            |                         |
| Appearance                                     | Visual        | White Fine Powder           |            | White Fine Powder       |
| Carbon Analysis by Weight<br>(Organic Loading) | SOP82-4.024   | 20.5%                       | 22.70%     | 21.11%                  |
| Endcapping                                     | SOP82-4.027   | 0.00abs                     | 2.00abs    | 1.061abs                |

*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:** 06/06/2019

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