



**ChemPure\* Brand  
Chemicals**

...Pure Quality

### Certificate of Analysis

|                           |   |
|---------------------------|---|
| <b>Product:</b>           | Cupric Sulfate Pentahydrate ACS/USP/FCC   |
| <b>Cat:</b>               | CP-A1420D/CP-B1420D                       |
| <b>Lot:</b>               | 0125101CP                                 |
| <b>CAS:</b>               | 7758-99-8                                 |
| <b>Molecular Formula:</b> | $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$ |
| <b>Molecular Weight:</b>  | 249.68                                    |
| <b>Manufacture Date:</b>  | 02/11/2019                                |
| <b>Retest Date:</b>       | 02/10/2022                                |

| <b>Test</b>                     |  | <b>Specification</b>                  |             | <b>Result</b> |
|---------------------------------|--|---------------------------------------|-------------|---------------|
|                                 |  | <b>Min.</b>                           | <b>Max.</b> |               |
| Appearance                      |  | Deep blue to blue, triclinic crystals |             | Complies      |
| Assay (on dried basis)          |  | 98.0%                                 | 102.0%      | 99.48%        |
| Identification                  |  | To pass test                          |             | Passes        |
| Loss on drying (3 hrs. @ 105°C) |  | 33.0%                                 | 36.5%       | 34.8%         |
| Insoluble Matter                |  |                                       | 0.005%      | 0.003%        |
| Solubility                      | Freely soluble in water and in glycerin, slightly soluble in alcohol |                                       |             | Conforms      |
| Chloride                        |  |                                       | 0.001%      | < 0.001%      |
| Nitrogen compounds              |  |                                       | 0.002%      | < 0.002%      |
| Calcium                         |  |                                       | 0.005%      | 0.0004%       |
| Nickel                          |  |                                       | 0.005%      | 0.0028%       |
| Potassium                       |  |                                       | 0.01%       | 0.0011%       |
| Sodium                          |  |                                       | 0.02%       | 0.0008%       |
| Iron                            |  |                                       | 0.003%      | 0.0022%       |

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Jorge L. Villanueva, Ph.D., General Manager