



**Scharlab S.L.**

Tel. int.: +34-93-7151811

Email: [scharlab@scharlab.com](mailto:scharlab@scharlab.com)

## CERTIFICATE OF ANALYSIS

Product: **Copper(II) sulfate**, solution 0,1 mol/l  
**CO0102**

Batch 17549401  
Quality release date 21/10/2016  
Expiry date 10/2019

| Analysis | Batch value | Specifications |
|----------|-------------|----------------|
| factor   | 1,000       | 0,999 - 1,001  |

uncertainty  $\pm 0,001$

1 ml = 0,024968 g  $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$

### Preparation

This volumetric solution is prepared using gravimetric and volumetric procedures.

### Traceability

This solution was checked using an EDTA standard solution, that was also checked against Scharlab's calcium carbonate volumetric standard. This Scharlab's volumetric standard is traceable to Standard Reference Material from NIST SRM 915b calcium carbonate

### Uncertainty

It characterises the dispersion of the values that could be attributed to the mesurand. The limits of the uncertainty are given at a confidence level of 95% ( $k=2$ ).

### Measurement

The batch value is determined by means of potentiometric method (complexometric) at 20°C.  
The equipments involved in the analysis of this solution are validated periodically.  
Batch value certified at the time of measurement.

### Storage and use

For volumetric titration.  
If the product is stored and unopened, this solution is stable for 3 years from the date of manufacturing.  
Keep tightly closed at room temperature. Avoid exposure to light and moisture.  
We suggest shaking the bottle before use in order to homogenize the content.  
The titre should be checked periodically by the user.

This certificate does not release the user from their control upon receipt of the goods  
You can get a copy of any of our COA from our web site: [www.scharlab.com](http://www.scharlab.com)

M. Canet  
Laboratory Manager