



**Scharlab S.L.**

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## CERTIFICATE OF ANALYSIS

Product:	<b>Bismuth, standard solution 1000 mg/l Bi for AA</b>	Batch	17063101
<b>BI0130</b>	(bismuth(III) nitrate in nitric acid 0,5 mol/l)	Quality release date	21/03/2016
		Expiry date	3/2019

Analysis	Batch value	Specifications
concentration	1005 mg/l	995 - 1005 mg/l
uncertainty $\pm$ 5 mg/l		

This standard solution is traceable to

Standard Reference Material from NIST.

### Preparation

This atomic absorption standard has been prepared using gravimetric and volumetric procedures.  
Composition per litre is 2,32 g Bismuth nitrate pentahydrate in Nitric acid 0,5 mol/l

### Traceability

This 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 expanded uncertainty are given at a confidence level of 95% ( $k=2$ ).

### Measurement

The batch value is determined by back complexometric titration at 20°C.  
Batch value certified at the time of measurement.

### Storage and use

For AA spectrophotometer calibration  
If the product is stored and unopened, this solution is stable for 3 years from the date of manufacturing.  
Once the bottle is opened, keep tightly closed at room temperature. Avoid exposure to light.  
We suggest rejecting the solution six months after opening  
This solution should be checked periodically by the user.