

Eluent Concentrate

for Ion Chromatography

Certificate

This certificate is designed in accordance with ISO Guide 31^[1]

Object of Certification: **Sodium hydroxide solution 0.1 mol/L in water**

Fluka Product Number: **43617**

Lot Number: **BCBR0189V**

Composition: Sodium hydroxide (puriss. p.a., >98%, product no. 71690) dissolved in high-purity water (18.2 MΩ·cm, 0.2 μm filtered)

Certified value traceable to NIST and BAM certified reference materials and uncertainty according to ISO Guide 35 ^[2] and Eurachem/CITAC Guide ^[3]		
Constituent	Certified value at 20 °C	Expanded uncertainty [$U = k u_c$; $k = 2$]
Sodium hydroxide	100.5 mmol/L	0.4 mmol/L




Intended Use: Concentrate for preparation of eluents for ion chromatography

Storing and Handling: This eluent concentrate solution shall be stored between 5 °C and 30 °C. To avoid CO₂ uptake the bottle should be equipped with a CO₂ absorbens unit immediately after opening.

Expiry Date: NOV 2017 (unopened bottle)

Traceability Statement: This eluent concentrate solution is traceable by potentiometric titration to NIST SRM 84 and also traceable to BAM certified titrimetric reference material (Fluka Prod. No. 60357).

Uncertainty Calculation: All uncertainties are calculated according to Eurachem/CITAC Guide^[3] and reported as combined expanded uncertainties at the 95% confidence level. Contributions from reference material, potentiometric titration measurements and storing effects are included in the reported uncertainty budget.

Certification body	Quality Release Date	Quality System
 K. D. Schmidt, Ph.D.	12 NOV 2015	  SQS Reg. No. 16368-02

[1] ISO Guide 31, 2nd Ed. (2000), "Reference Materials - Contents of certificates and labels"

[2] ISO Guide 35, 3rd Ed. (2006), "Reference Materials - General and statistical principles for certification"

[3] Eurachem/CITAC Guide, 3rd Ed. (2012), "Quantifying uncertainty in analytical measurement"