Quality certificate
Technical data for Validation
of LCW021 (0.05-2.0 mg/l
Iron Fe $^{2+}$)

Quality certificate

Technical data for test LCW021

Sensitivity	0.550 Abs./(mg/l)
Ordinate intersect	0.064 Abs.
Residual standard deviation	0.0060 Abs.
Method variation coefficient	1.11 %
Method standard deviation	0.011 mg/l
Confidence interval (95%)	± 0.026 mg/l

The technical data for test LCW021 were determined in conformity with ISO 8466-1 and DIN 38402 A51 „Calibration of analysis methods".
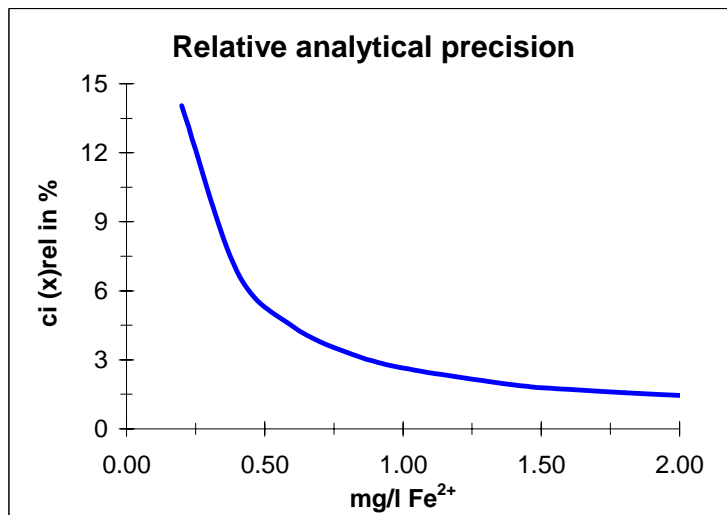
The series of the smallest and largest calibration standards exhibit normal distribution and are outlier- and trend-free.
The calibration gives a linear function.

Technical data in conformity with DIN 32645

Detection limit	0.0054 mg/l
Quantitation limit	0.016 mg/l

The detection and the quantitation limits were determined in conformity with DIN 32645.

Relative analytical precision

Result	Confidence intervall (95%)
0.20 mg/l	± 0.028 mg/l
0.60 mg/l	± 0.026 mg/l
1.00 mg/l	± 0.026 mg/l
1.40 mg/l	± 0.027 mg/l
2.00 mg/l	± 0.029 mg/l

HACH LANGE GmbH
Quality Management

Dr. Ralf Kloos

HACH LANGE
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