

## Deutsche Akkreditierungsstelle GmbH

### Annex to the Accreditation Certificate D-K-15184-01-00 according to DIN EN ISO/IEC 17025:2005

Period of validity: 31.05.2018 to 01.09.2021

Date of issue: 31.05.2018

Holder of certificate:

**Hach Lange GmbH**  
**Königsweg 10, 14163 Berlin**

Head: Angela Kauert  
Deputy: Bernd Seidl

Accredited since: 2007-03-26

Calibrations in the fields:

**Chemical and medical quantities**

**Chemical analysis, reference materials**

- **pH**
- **Electrolytic conductivity**

**Permanent Laboratory**

Measured quantity / Calibration item	Range	Measurement conditions / procedure	Best measurement capability <sup>1)</sup>	Remarks
pH value / pH buffer solutions	1.5 to 11	25 °C	0.0050	absolute uncertainties of measurement
	> 11 to 13	Two-point calibration with glass electrode	0.020	
electrolytic conductivity / solutions	1.5 mS m <sup>-1</sup> to 4.0 mS m <sup>-1</sup>	Conductivity meter with 4-pole-measuring cells	0.65 %	
	> 4.0 mS m <sup>-1</sup> to 12000 mS m <sup>-1</sup>		0.23 %	
	1.5 mS m <sup>-1</sup> to 4.0 mS m <sup>-1</sup>	LCR meter with 4-pole-measuring cells	2.0 %	
	> 4.0 mS m <sup>-1</sup> to 12000 mS m <sup>-1</sup>		0.30 %	

<sup>1)</sup> The best measurement capabilities are stated according to EA-4/02. These are expanded uncertainties of measurement with a coverage probability of 95% and have a coverage factor of k = 2 unless stated otherwise. Uncertainties without unit are relative uncertainties referring to the measurement value unless stated otherwise.