

Conductivity Standard Quality Control Certificate

Mettler-Toledo, LLC

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Nominal Specifications:

Conductivity Standard Solution:	1413 $\mu\text{S}/\text{cm}$
Order Number:	63056131 (C1050)

Buffer Properties:

Actual Conductivity:	1411 $\mu\text{S}/\text{cm}$ (Uncertainty of $\pm 1\%$ at 25°C)
Lot Number Solution:	16G205006
Buffer Substance:	Potassium Chloride, CAS # 7447-40-7
Production Date:	July, 20, 2016
Expiry Date:	July, 20, 2018

Traceability:

For the calibration of the value of our buffer or electrolyte solutions, the potentiometric measuring instruments were calibrated using one or two different reference buffer or electrolyte solutions, based on primary reference materials of the NIST¹.

The National Metrology Institutes compare their measurement capabilities periodically in the key comparisons within the "Mutual Recognition Arrangement of National Measurement Standards and of Calibration Certificates issued by National Metrology Institutes (CIPM-MRA)". The international comparability, harmonization and the equivalence of their measurement capabilities are therefore ensured.

This guarantees a flawless traceability of the certified pH buffer values to NIST along with our Quality Management System. The certification is done for each lot.

Standards:

NIST Standard solution value:	717.5 $\mu\text{S}/\text{cm}$	1413 $\mu\text{S}/\text{cm}$
NIST-traceable solid standard:	Potassium Chloride (99.998% assay)	
NIST SRM	999	

¹ National Institute of Standards and Technology, Gaithersburg, USA

Date Certificate Issued:	July, 25, 2016
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Quality Control (Print/Sign) Name	<i>Alicia Bourdeau</i> / <i>Alicia Bourdeau</i>
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