

**Buffer Quality Control Certificate**

Address	1900 Polaris Parkway, Columbus, OH 43240-4035
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[www.ml.com](http://www.ml.com)**Nominal Specifications:**

pH Standard Solution:	4 ( ± 0.02 at 25 °C)
Order Number:	63056121, 63056120, 63056119, 63056118 (C0723)

**Buffer Properties:**

Actual pH:	4.01
Lot Number Solution:	16L205001
Buffer Substance:	Potassium biphthalate, CAS # 877-24-7
Production Date:	December 20, 2016
Expiry Date:	December 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 NIST<sup>1</sup>.

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:	1.677 ± 0.005 (25 °C)	4.005 ± 0.005 (25 °C)
NIST SRM:	189c	185i

1 National Institute of Standards and Technology, Gaithersburg, USA

Date Certificate Issued:	December 21, 2016
Quality Control (Print/Sign) Name	x Alicia Bourdeau/ 