

# Buffer Quality Control Certificate

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**Nominal Specifications:**

|                       |  |
|-----------------------|--|
| pH Standard Solution: | 4 ( $\pm 0.02$ at 25 °C)                       |
| Order Number:         | 63056121, 63056120, 63056119, 63056118 (C0723) |


**Buffer Properties:**

|                      |                                       |
|----------------------|---------------------------------------|
| Actual pH:           | 4.00                                  |
| Lot Number Solution: | 17D195004                             |
| Buffer Substance:    | Potassium biphthalate, CAS # 877-24-7 |
| Production Date:     | April, 19, 2017                       |
| Expiry Date:         | April, 19, 2019                       |

**Traceability:**

|   |                           |                           |
|---|---------------------------|---------------------------|
| <p>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>.</p> <p>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.</p> <p>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.</p> |                           |                           |
| <b>Standards:</b>   |                           |                           |
| NIST Standard solution value:   | 1.677 $\pm$ 0.005 (25 °C) | 4.005 $\pm$ 0.005 (25 °C) |
| NIST SRM:   | 189c                      | 185i                      |

1 National Institute of Standards and Technology, Gaithersburg, USA

|                                   |                    |  |
|-----------------------------------|--------------------|--|
| Date Certificate Issued:          | April, 24, 2017    |  |
| Quality Control (Print/Sign) Name | x Alicia Bourdeau/ |  |