



## Certificate of Analysis

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ThermoFisher Scientific's Quality System has been found to conform to Quality Management System  
Standard ISO9001:2015 by SAI Global Certificate Number CERT - 0120632

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. ThermoFisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the manufacturer to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

|                   |                                                                                                                                                                                                   |                             |            |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------|
| Catalog Number    | SB101                                                                                                                                                                                             | Quality Test / Release Date | 11/30/2018 |
| Lot Number        | 187188                                                                                                                                                                                            | Expiration Date             | Nov/2020   |
| Description       | BUFFER SOLUTION, PH 4.00, CERTIFIED                                                                                                                                                               |                             |            |
| Country of Origin | United States                                                                                                                                                                                     |                             |            |
| Chemical Origin   | Organic - non animal                                                                                                                                                                              |                             |            |
| BSE/TSE Comment   | No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product. |                             |            |
| Chemical Comment  | This material does not contain any potential allergens, including peanuts, milk, wheat, eggs, gluten, or soybean and does not contain any genetically modified organisms (GMO's)                  |                             |            |

N/A

| Result Name          | Units               | Specifications                | Test Value        |
|----------------------|---------------------|-------------------------------|-------------------|
| APPEARANCE           |                     | REPORT                        | Clear ,red liquid |
| PH AT 25 DEGREES C   |                     | Inclusive Between 3.99 - 4.01 | 4.01              |
| OPTICAL ABSORBANCE   | PASS/FAIL           | = PASS TEST                   | PASS TEST         |
| NIST STD USED: pH 4  | POT HYDROGEN PHTHAL | = LOT 185I                    | LOT 185I          |
| IDENTIFICATION       | PASS/FAIL           | = PASS TEST                   | PASS TEST         |
| NIST STD USED: pH 7b | DISOD HYDRO PHOS    | = LOT 186IIG                  | LOT 186IIG        |
| NIST STD USED: pH 7a | POT DIHYDRO PHOS    | = LOT 186IG                   | LOT 186IG         |
| TRACEABLE TO NIST    | PASS/FAIL           | = PASS TEST                   | PASS TEST         |

Residual Solvents

Quality Assurance Specialist - Certificate of Analysis Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.  
If there are any questions with this certificate, please call at (800) 227-6701.

\*Based on suggested storage condition.