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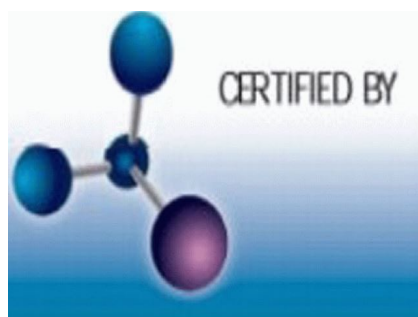
Certificate of Analysis

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2008 standard by SAI Global Certificate Number CERT - 0090918

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. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Certain products (USP/FCC/NF/EP/BP/JP grades) are sold for use in food, drug, or medical device manufacturing. Fisher does not claim regulatory coverage under 21 CFR nor maintain DMF's with the FDA. The following are the actual analytical results obtained:

Catalog Number	SB101	Quality Test / Release Date	10/20/2017
Lot Number	177759	Expiration Date	Oct/2019
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)		

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



Jerusa Bailey-Wyche

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 a extension of this catalog number listed above. If there are any questions with this certificate, please call Chemical Services at (800) 227-6701.

*Based on suggested storage condition.