

Certificate of Analysis

1 Reagent Lane
 Fair Lawn, NJ 07410
 201.796.7100 tel
 201.796.1329 fax

Thermo Fisher 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. Thermo Fisher 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 final formulator and end user 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	MB124	Quality Test / Release Date	09/20/2019
Lot Number	194988	Expiration Date	Sep/2024
Description	45% 2-PROPANOL + 45% ACETONITRILE + 10% ACETONE		
Country of Origin	United States		
Chemical Origin	Organic - non animal and synthetic		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear, colorless solution
ASSAY BY GC-FID	PASS/FAIL	= PASS TEST	PASS TEST
COLOR	APHA	<= 5	<5
IONIC IMPURITY - ALUMINUM (Al)	ppb	<= 25	<1
IONIC IMPURITY - CALCIUM (Ca)	ppb	<= 50	<1
IONIC IMPURITY - COPPER (Cu)	ppb	<= 5	<1
IONIC IMPURITY - IRON (Fe)	ppb	<= 5	3
IONIC IMPURITY - LEAD (Pb)	ppb	<= 5	<1
IONIC IMPURITY - MAGNESIUM (Mg)	ppb	<= 10	<1
IONIC IMPURITY - MANGANESE (Mn)	ppb	<= 5	<1
IONIC IMPURITY - NICKEL (Ni)	ppb	<= 5	<1
IONIC IMPURITY - POTASSIUM (K)	ppb	<= 10	6
IONIC IMPURITY - SILVER (Ag)	ppb	<= 5	<1
IONIC IMPURITY - SODIUM (Na)	ppb	<= 50	6
IONIC IMPURITY - ZINC (Zn)	ppb	<= 10	<1
LC-MS GRADIENT SUITABILITY	PASS/FAIL	= PASS TEST	PASS TEST
LC-UV GRADIENT SUITABILITY	PASS/FAIL	= PASS TEST	PASS TEST
LC-UV GRADIENT SUITABILITY @ 210 NM	mAU	<= 5.0	<5
LC-UV GRADIENT SUITABILITY @ 240 NM	mAU	<= 2.5	<2.5
LC-UV GRADIENT SUITABILITY @ 254 NM	mAU	<= 2.5	<2.5
LC-UV GRADIENT SUITABILITY @ 280 NM	mAU	<= 2.5	<2.5
MANUFACTURING DATE		= REPORT	9/18/19 7:18 AM
OPTICAL ABS AT 210 NM		<= 1.0	0.7
OPTICAL ABS AT 220 NM	ABS. UNITS	<= 1.0	0.6

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.



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A handwritten signature in black ink that reads "Julian Burton".

Julian Burton - Quality Control Manager – Fair Lawn

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