



Certificate of Analysis

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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	J20605	Quality Test / Release Date	05/01/2019
Lot Number	192250		
Description	TWEEN 20, ULTRAPURE		
Country of Origin	United States	Suggested Retest Date	Apr/2024
Chemical Origin			
BSE/TSE Comment			
Chemical Comment			

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	CLEAR, YELLOW LIQUID
ACID VALUE	MG KOH/G	<= 2.2	0.8
HYDROXYL NUMBER	MG KOH/G	Inclusive Between 96 - 108	101
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
WATER (H2O)	%	<= 3.0	2.3
SOLUBILITY 10% IN H2O	PASS/FAIL	= PASS TEST	PASS TEST
SPECIFIC GRAVITY @ 25 DEG C	GM/ML	<> REPORT	1.1044
VISCOSITY 25 DEGREES C, cps	CPS	<> REPORT	351
SAPONIFICATION NUMBER	MG KOH/G	Inclusive Between 40 - 50	47

Quality Assurance Specialist - Certificate of Analysis Bridgewater

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.