

## 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 – 0120633

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	J23551	Quality Test / Release Date	02/23/2023
Lot Number	230256		
Description	YEAST-TORULA		
Country of Origin	United States	Suggested Retest Date	Jan/2026

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Light beige to yellow powder
E. COLI	CFU/GRAM	< 10	<10
LIVE YEAST	CFU/GRAM	= REPORT	<10
MOISTURE	%	<= 7.0	4.19
MOLDS	CFU/GRAM	< 50	<50
PROTEIN	%	>= 45	52.87
S.AUREUS	CFU/GRAM	< 10	<10
SALMONELLA	DETECTED/NOT DETECT.	= NOT DETECTED	NOT DETECTED
TOTAL COLIFORM	CFU/GRAM	< 10	<10
TOTAL PLATE COUNT	CFU/GRAM	< 7500	500
pH at 25 DEGREES C (2.0% SOLUTION)		Inclusive Between 5.6 - 7.4	6.8



Harout Sahagian - Quality Control Supervisor - 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.