Fisher Scientific L.L.C. US
1 Reagent Lane
Fair Lawn,
NJ 07410, United States of America

CERTIFICATE OF ANALYSIS

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by Intertek Global
Certificate Number. CERT-0120633

Catalogue Number	42457
Lot Number	B0157632
Description	TRIS (HYDROXYMETHYL) AMINOMETHANE, ALKALIMETRIC STD,ACS GRADE
CAS Number	77-86-1
Quality Test/Release Date	31/Dec/2025
Suggested retest date	30/Aug/2028
Country of Origin	China
Declaration of Origin	Organic - non animal
BSE/TSE	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.

Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	White crystalline powder, crystals, or chunks.
ASSAY	%	Inclusive Between 99.8 - 100.1	100.01
HEAVY METALS (by ICP-OES)	ppm	<= 5	<5
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
INFRARED SPECTRUM	CONFORMS	= CONFORMS TO REF	CONFORMS TO REF
INSOLUBLE MATTER	%	<= 0.005	0.002
IRON (Fe)	ppm	<= 5	<5
OPTICAL ABSORBANCE OF 40% SOLN. @ 290 NM	ABS. UNITS	<= 0.2	<0.2
WATER (H2O)	%	<= 2	<0.5

Harout Sahagian
QC Manager

Products are processed under ISO 9001:2015 quality management systems and samples are tested for conformance to the noted specifications. Certain data may have been supplied by third parties. We disclaim the implied warranties of merchantability and fitness for a particular purpose, and the accuracy of third-party data or information associated with the product. Products are for research use or further manufacturing. Products are not for direct administration to humans or animals. It is the responsibility of the final formulator or end user to determine suitability, and to qualify and/or validate each product for its intended use.

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of the catalogue number listed above.