



CERTIFICATE OF ANALYSIS

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

Number. 2317548

Catalogue Number 14050 Lot Number A0456626

Description Tris(hydroxymethyl)aminomethane,99+%,for biochemistry

CAS Number 77-86-1
Quality Test/Release Date 26/Mar/2025
Suggested retest date 26/Mar/2028
Country of Origin CHINA
Declaration of Origin synthetic

BSE/TSE Not directly derived from or manufactured with any animal byproducts in any way

(Including but not limited to fermentation or nutrient broth, catalysts, enzymes).

Result Name	Units	Specifications	Test Value
Appearance (Color)		White	White
Appearance (Form)		Crystalline powder or crystals and/or chunks	Crystals
Infrared spectrum		Conforms	Conforms
Melting point		168°C to 171°C	171°C
Titration with HCIO4	%	>=99.0	99.2
Water	%	=<0.5 (K.F.)	0.3 (K.F.)
Heavy metals (as Pb)	ppm	=<5	=<2
Residue after ignition	%	=<0.1	=<0.001
рН		10.0 to 11.5 (5 % in water)	10.8 (5 % in water)
UV		(40 % in water) 1 cm cell	(40 % in water) 1 cm cell
UV		at 290 nm A: =<0.2	at 290 nm A:0.06
Color of solution	APHA	=<25 (20 % in water)	10 (20 % in water)

Geert Torfs Supervisor, QC

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 and development use only. 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.