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	J17525
Lot Number	233810
Description	IMIDAZOLE, ULTRAPURE
CAS Number	288-32-4
Quality Test/Release Date	26/Jan/2024
Suggested retest date	31/Mar/2026
Country of Origin	Germany
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 to cream colored crystalline flakes/ powder
ASSAY (DRY BASIS)	%	>= 98.5	99.9
HEAVY METALS (as Pb)	ppm	<= 10	2
IDENTIFICATION, I.R.	Matches Reference	IN MATCHES REFERENCE	MATCHES REFERENCE
IRON (Fe)	ppm	<= 30	<30
MELTING POINT	DEG C	Inclusive Between 88 - 92	90.3
MOISTURE (KF)	%	<= 1.0	0.08
PKA AT 25 DEGREES C		Inclusive Between 6.80 - 7.10	6.99

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.