

CERTIFICATE OF ANALYSIS

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by LRQA. Certificate Number. 10551915

Catalogue Number	A12132
Lot Number	10257036
Description	Ethylenediamine, 99%
CAS Number	107-15-3
Quality Test/Release Date	15/Jan/2026
Suggested retest date	15/Jan/2027
Country of Origin	Germany
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
Assay (GC)	%	≥98.5%	99.9
Appearance (Color)		Clear colorless to pale yellow	Clear colourless
Elemental Calcium (ICP)	%	<=0.0005% (5ppm)	0.0001
Elemental Cadmium (ICP)	%	<=0.0001% (1ppm)	<0.00001
Elemental Cobalt (ICP)	%	<=0.0001% (1ppm)	<0.00001
Elemental Chromium (ICP)	%	<=0.0001% (1ppm)	0.00001
Elemental Copper (ICP)	%	<=0.0001% (1ppm)	<0.00001
Elemental Iron (ICP)	%	<=0.0001% (1ppm)	0.00007
Elemental Potassium (ICP)	%	<=0.002% (20ppm)	0.0002
Elemental Magnesium (ICP)	%	<=0.0001% (1ppm)	0.00005
Elemental Manganese(ICP)	%	<=0.0001% (1ppm)	<0.00001
Elemental Sodium (ICP)	%	<=0.002% (20ppm)	0.0004
Elemental Nickel (ICP)	%	<=0.0001% (1ppm)	0.00009
Elemental Lead (ICP)	%	<=0.0001% (1ppm)	0.00001
Elemental Zinc (ICP)	%	<=0.0001% (1ppm)	0.0001
Form		Liquid	Liquid
Identification (FTIR)		Conforms	Conforms
Water Content (Karl Fischer Titration)	%	<=0.5%	0.46
Refractive Index		1.4550-1.4580 @ 20°C	1.4568



Paul Coleman
Site Quality 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

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.

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.

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