

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	016821
Lot Number	10256054
Description	Amberlite® IRN-77, ion exchange resin, nuclear grade
CAS Number	11128-94-2
Quality Test/Release Date	31/Jul/2025
Suggested retest date	31/Jul/2035
Country of Origin	France
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)		Pale brown to brown	Pale brown
Exchange capacity	eq/L	>1.80 eq/L (Hydrogen form)	2.03
Form		Spherical beads	Spherical beads
Harmonic mean size	mm	0.600 - 0.700 mm	0.634
Moisture holding capacity	%	48.0 - 55.0 (Hydrogen form)	50.8
Heavy Metals (as Pb)	ppm	<10ppm (on dry basis)	<10
Trace Metal	ppm	Aluminium <50ppm (on dry basis)	<3
Trace Metal	ppm	Calcium <50ppm (on dry basis)	<5
Trace Metal	ppm	Copper <10ppm (on dry basis)	<1
Trace Metal	ppm	Iron <50ppm (on dry basis)	<1
Trace Metal	ppm	Magnesium <50ppm (on dry basis)	2
Trace Metal	ppm	Sodium <50ppm (on dry basis)	<2



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 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.

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.