

## Certificate of Analysis

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System  
Standard ISO9001:2015 by TUV SUD America Certification Number: 951001163

Catalogue Number: 000434  
LOT Number: Y12K008  
CAS Number: 7440-02-0  
Description: Nickel pieces, 99.9+% (metals basis)  
Quality Test/Release Date: 12/Nov/2024  
Retest Date: 12/Nov/2029  
Country of Origin: Norway

Result Name	Units	Specification	Test Value
Silver (Ag)	PPM	<0.0001	<0.0001
Cadmium (Cd)	PPM	<0.0001	<0.0001
Arsenic (As)	PPM	<0.0001	<0.0001
Lead (Pb)	PPM	<0.0001	<0.0001
Selenium (Se)	PPM	<0.0001	<0.0001
Aluminium (Al)	PPM	<0.0004	<0.0004
Sulfur (S)	PPM	<0.0005	<0.0005
Cobalt (Co)	PPM	<0.0005	<0.0005
Magnesium (Mg)	PPM	<0.0005	<0.0005
Manganese (Mn)	PPM	<0.0005	<0.0005
Boron (B)	PPM	<0.0005	<0.0005
Copper (Cu)	PPM	<0.0005	<0.0005
Nitrogen (N)	PPM	<0.0005	<0.0005
Zinc (Zn)	PPM	<0.0005	<0.0005
Hydrogen (H)	PPM	<0.0008	<0.0008
Calcium (Ca)	PPM	<0.001	<0.001
Silicon (Si)	PPM	<0.001	<0.001
Iron (Fe)	PPM	<0.0015	<0.0015
Carbon (C)	PPM	<0.003	<0.003
Oxygen (O)	PPM	<0.004	<0.004
Elemental Bismuth (ICP)	ppm	<0.00002 ppm	<0.00002

### Additional Information

Certified by:



Mr. Seth Christopher.  
Quality Manager – Ward Hill

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.