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 Inc.
Certificate Number. 951001163

Catalogue Number	011806
Lot Number	R21L008
Description	Ruthenium(III) chloride oxide, ammoniated
CAS Number	11103-72-3
Quality Test/Release Date	21/May/2025
Suggested retest date	21/May/2030
Country of Origin	United States

Result Name	Units	Specifications	Test Value
Assay from Suppliers CofA	%	≥34.0% Ruthenium	34.68
Appearance (Color)		Red to red-brown	Dark brown
Form		Powder or crystals or crystalline powder	Powder
Total Metal Impurities	%	≤0.1%	0.0015

Additional Information Au <5 , Ca <10 , Cr <10 , Cu 7 , Fe 8 , Ir <15 , Mg <1 , Mn <1 , Ni <10 , Pd <10 , Pt <5 , Rh <5 , Si <15 , Values given in ppm unless otherwise specified.

John Astarita

John Astarita
Director, Quality

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.