Acros Organics BV (Thermo Fisher Scientific)
Janssen Pharmaceuticalaan 3a
Geel,
2440, Belgium

CERTIFICATE OF ANALYSIS

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by Intertek. Certificate Number. 2317548

Catalogue Number	41907
Lot Number	A0475803
Description	Rhodamine 110,98+%,pure,laser grade
CAS Number	13558-31-1
Quality Test/Release Date	10/Sep/2025
Suggested retest date	10/Sep/2030
Country of Origin	UNITED STATES OF AMERICA
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)		Green to red to red-brown	Red-brown
Appearance (Form)		Crystalline powder or crystals	Crystalline powder
Infrared spectrum		Conforms	Conforms
HPLC	%	>=98.0	99.0
UV Lambda max	nm	498 to 504 (c=10 mg/l in Methanol)	504 (c=10 mg/l in Methanol)
Molar absorption coefficient	l/(mol.cm)	>=77000 (at Lambda max)	79655 (at Lambda max)
Suitability		(for use as a laser dye) Passes test	(for use as a laser dye) Passes test

Geert Torfs
Supervisor, QC

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.