

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	L13315
Lot Number	A0480001
Description	Polysorbate 80
CAS Number	9005-65-6
Quality Test/Release Date	23/Jan/2026
Suggested retest date	23/Jan/2029
Country of Origin	Belgium
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
Acid Value	mg KOH/g	≤2.0 mg KOH/g	0.4
Appearance (Color)		Yellow to orange	Orange
Form		Viscous liquid	Viscous liquid
Identification (FTIR)		Conforms (non-U.S. specification)	Conforms
Water Content (Karl Fischer Titration)	%	≤4.0%	3
Hydroxyl Value	mg KOH/g	65.0-80.0 mg KOH/g	72
Refractive Index		1.4700-1.4760 @ 20°C (non-U.S. specification)	1.4727
Saponification Value	mg KOH/g	45.0-55.0 mg KOH/g	49



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.