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	45014
Lot Number	A0467423
Description	Poly(vinyl alcohol),88% hydrolyzed, average M.W. 85,000-120,000
CAS Number	9002-89-5
Quality Test/Release Date	09/Dec/2024
Suggested retest date	09/Dec/2029
Country of Origin	UNITED STATES OF AMERICA
Declaration of Origin	synthetic

Result Name	Units	Specifications	Test Value
Appearance (Color)		White to off-white	Almost white
Appearance (Form)		Granular solid	Granular solid
Infrared spectrum		Conforms	Conforms
Degree of hydrolysis	mol %	87.0 to 89.0	88.6
Volatile matter	%	=<5	3.56
Viscosity	cP	23.0 to 27.0 (4 % in water)	24.9 (4 % in water)
Ash	%	=<0.5 (Na2O)	0.38 (Na2O)
pH		4.5 to 6.5 (4 % in water)	5.3 (4 % in water)



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.