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	33260
Lot Number	A0473422
Description	Carboxymethyl cellulose, sodium salt,average M.W. 90000 (DS=0.7)
CAS Number	9004-32-4
Quality Test/Release Date	11/Jun/2025
Suggested retest date	11/Jun/2028
Country of Origin	FRANCE
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)		White to light yellow	light yellow
Appearance (Form)		Granular powder	Granular powder
Infrared spectrum		Conforms	Conforms
Assay	%	>=99.5	>=99.5
Loss on drying	%	=<10 (As packed) (3 to 5 g, 105°C, 2 h)	2.6 (As packed) (3 to 5 g, 105°C, 2 h)
Heavy metals	ppm	=<20	=<10
pH		6.5 to 8 (1 % solution)	6.6 (1 % solution)
Viscosity	mPa.s	50 to 100 (2 % at 25°C) (Brookfield)	59.6 (2 % at 25°C) (Brookfield)
Arsenic (As)	ppm	=<3	=<3
Lead (Pb)	ppm	=<10	=<2
Mercury (Hg)	ppm	=<1	=<1
Cadmium (Cd)	ppm	=<1	=<1
Impurity	%	=<0.4 (Sodium glycolate)	=<0.4 (Sodium glycolate)
Sodium chloride (NaCl)	%	=<0.25	=<0.25
Degree of substitution		0.65 to 0.90	0.81

Geert Torfs
Supervisor, QC

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.