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	24330
Lot Number	A0476544
Description	D-Calcium pantothenate,98%
CAS Number	137-08-6
Quality Test/Release Date	15/Oct/2025
Suggested retest date	15/Oct/2028
Country of Origin	UNITED KINGDOM
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 almost white	White
Appearance (Form)		Powder	Powder
Infrared spectrum		Conforms	Conforms
Titration with HClO4	%	>=97.5 (On dried substance)	100.3 (On dried substance)
Titration Complexometric	%	8.2 to 8.6 (Ca) On dried substance	8.6 (Ca) On dried substance
Specific optical rotation		+25.0° to +27.5° (20°C, 589 nm) (c=5, H2O)	+26.4° (20°C, 589 nm)
Specific optical rotation		On dried substance	On dried substance
Loss on drying	%	=<5.0 (105°C, 3 h)	1.85 (105°C, 3 h)
Heavy metals (as Pb)	ppm	=<20	=<10



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.