

CERTIFICATE OF ANALYSIS

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by ICG. Certificate Number. 110212Q

Catalogue Number	A18820
Lot Number	62580031
Description	Saponin
CAS Number	8047-15-2
Quality Test/Release Date	15/Aug/2025
Suggested retest date	15/Aug/2030
Country of Origin	CHINA
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
Comment	cm	Foam rate: 6-17cm	11
Comment	%	Sapogenein content ca 10%	10.8
Comment	mN/m	Surface tension: 35-55mN/m	42
Comment		Turbidity: \leq 70 Formazin turbidity units	<3.0
Appearance (Color)		White to pale yellow or pale cream	Pale yellow
Form		Powder	Powder
pH		4.0-7.0 (5% in aqueous. Solution)	5.0-7.0
Specific Gravity	g/ml	1.01-1.02	1.01



Ronald Becht
Technical Support 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.