

## 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	A18820
Lot Number	10248126
Description	Saponin
CAS Number	8047-15-2
Quality Test/Release Date	22/Sep/2023
Suggested retest date	22/Sep/2028
Country of Origin	Germany
Declaration of Origin	Plant
BSE/TSE	Vegetable

Result Name	Units	Specifications	Test Value
Comment	mN/m	Surface Tension: 35-55mN/m	36.0
Appearance (Color)		White to pale yellow or pale cream	Pale cream
Form		Powder	Powder
Foam rate	cm	6-17cm	12.0
pH		4.0-7.0 (5% in aqueous. Solution)	4.65
Specific Gravity	g/ml	1.01-1.02	1.017
Turbidity	TE/F	<= 70 Formazin turbidity units	6.70



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.