

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	45112
Lot Number	A0480164
Description	Yeast extract
CAS Number	84604-16-0
Quality Test/Release Date	29/Jan/2026
Suggested retest date	29/Jan/2028
Country of Origin	CHINA
Declaration of Origin	Microbial
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)		Yellow to brown	Beige
Appearance (Form)		Powder	Powder
Total nitrogen	%	>=9.0 (on dry substance)	11.7 (on dry substance)
Amino nitrogen	%	>=3.0 (on dry substance)	5.1 (on dry substance)
Loss on drying	%	=<6.0	3.7
pH		5.3 to 7.2 (2 % in water)	6 (2 % in water)
Sodium chloride (NaCl)	%	=<2.0	0.3
Microbial contamination	CFU/g	=<50000 (Aerobic count)	20 (Aerobic count)
Microbial contamination	MPN/100 g	=<30 (Coliform)	=<30 (Coliform)
Microbial contamination		(Salmonella) Negative	(Salmonella) Negative



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.