



Certificate of Analysis

**Pail TC Lactalbumin Hydrolysate
10kg**

Catalog Number: **259961**

Lot Number: **4074493**

Manufacturing Date: **07 Oct 2022**

Expiration Date: **23 Nov 2025**

Intended Use: For research use or further manufacturing. Not for diagnostic use or direct administration into humans or animals.

01. Dehydrated Appearance: Buff to tan, free-flowing, homogeneous powder
02. Solubility: 1% solution, soluble in distilled or deionized water
03. Solution Appearance (1%): Very light to light amber, clear
04. Reducing Sugars: None detected
05. Residual Solvents (CPMP/ICH/283/95): Typical analysis for TC Lactalbumin Hydrolysate indicates that there is less than 5000 ppm of 1-Butanol or less than 890 ppm Toluene

TEST	SPECIFICATION	RESULT	UNITS
Loss on Drying:	≤ 7.0	3.3	%
Nitrogen	12.0 – 13.2	12.7	%
Ash	4.0 – 8.0	6.5	%
Endotoxin	≤ 5000	113	EU/g
Bulk Lot Number:	-	2222206	-

ANIMAL SOURCE	COUNTRY OF ORIGIN	TISSUE CATEGORY		
		BIC	SIC	ABC
Bovine	New Zealand	IV	IV	MLK
Porcine	USA	III	III	IB

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(Continued)

The Lot Number on this certificate is synonymous with the Lot Number shown on the product label.

This product was manufactured and tested for Thermo Fisher Scientific - Advanced Bioprocessing in ISO 13485:2016 registered facilities. In addition, these facilities are registered with the United States Food and Drug Administration (FDA), and are regulated by the FDA's Quality System Regulations (QSRs). This product met Thermo Fisher's stringent quality standards at time of lot release. Any test results reported on this certificate were obtained at time of release. This material is not for human or animal consumption.

Advanced Bioprocessing's Certificates of Analysis (COA) typically contain animal origin information when products are manufactured using materials of animal origin. This information may be contained in the animal source table and/or in one or more of the additional paragraphs found on the COA. Following Quality Control release, the COA is created and published for catalog products at <http://www.thermofisher.com/coasearch>. For each lot of finished product that contains animal origin raw materials, the COA shows the animal origin data from the individual lots of animal origin raw materials used, as provided by the raw material suppliers.

At times, suppliers notify Thermo Fisher of new and/or additional information they have received from their raw material suppliers that modifies the animal origin information for lots previously provided to Thermo Fisher. Advanced Bioprocessing will notify customers of record for any changes to the COA.

Tamara H. Hurd 10 May 2024
Quality System Department