Weiss-Bio-Tech



MILK-O®-LYS

Product Data Sheet

Date of issue: 19 September 2022

Powder lysozyme for use in the food industry

Description:	MILK-O [®] -LYS is a powder lysozyme preparation for use in the dairy, meat or wine industry. In dairy applications, lysozyme prevents Clostridia-related late blowing of cheese during ripening. Clostridia bacteria are particularly living in the milk when using silage as cow feed. MILK-O [®] -LYS is a natural product that has been manufactured through an extraction process from hens' egg white. The product can be used in all hard-, semi-hard and semi-soft cheese types. MILK-O [®] -LYS has proven to be especially effective as alternative to bacto-fugation treatments or as alternative to the use of sodium nitrate.		
Properties:	Enzyme: Lysozyme Activity: 35 000 FIP units/g Water content: <6% Colour and appearance may vary indication of enzyme activity.	IUBMB: 3.2.: Form: powe Colour: white from batch to	der e
Application:	$MILK\text{-}O^{\otimes}\text{-}LYS$ has a wide scope of application in the dairy, meat, and wine industry.		
Conditions of use:	MILK-O®-LYS can be simply dispersed in water and then added directly to the cheese milk. Mix via the filling of the vat with the milk. Efficiency of MILK-O®-LYS may depend on the contamination level and storage conditions of the cheese.		
	Application	Dosage	Conditions
	Hard and semi-hard cheeses	15-25 g / 1000 L milk	Optional: lower the dosage rate with lower contamination levels
	Semi-soft cheeses	1020 g / 1000 L milk	Optional: lower dosage when used with NaNO ₃ /bacto-fugation

pH for optimal lysozyme activity is 5.0-5.2. Lysozyme is destroyed if the milk is heated above 70°C, with 3% maximum activity remaining when heated to 100°C for a few seconds.

GM Status: The product and its constituent enzymes are not genetically modified. Enzyme proteins are produced from hen's egg white.

Composition: MILK-O[®]-LYS is stabilised with sodium chloride.

Packaging and storage: The product is available in 500g food grade HDPE boxes. When stored unopened in a cool and dry place, activity is preserved for 24 months.

Safety and caution: Enzyme products need to be handled with care. Please consult the separately available Safety Data Sheet for further information.

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Compliance and legal:	Our enzyme products are used as processing aids in the food manufacturing process and are thus free from any labelling provisions in the European Union. The product does not fall within the scope of EU regulations (EC) 1829/2003 and (EC) 1830/2003 on genetically modified food and feed.			
	The product is manufactured to comply with recommended purity specification given by the Joint FAO/WHO Expert Committee on Food Additives (JECFA), ar conforms with the recommended specifications of the Food Chemical Codex for food enzymes.			
	The product is classified in the EU numbering system for food additives as E1105 and its use and labelling are regulated in various EU Directives and/or specific product standards.			
Purity criteria:	Total plate count Coliforms <i>Escherichia coli</i> Salmonella Staphylococcus aureus	\leq 50000 CFU per g \leq 30 CFU per g absent in 25 g absent in 25 g absent in 1 g		
	Heavy Metals (as Pb) Lead Arsenic Cadmium Mercury Sodium chloride	< 30 ppm < 5 ppm < 3 ppm < 0.5 ppm < 8%		
Special diet information:	Kosher: Halal: Vegan/Vegetarian:	certified certified the product is of animal origin		
Certification:	WeissBioTech GmbH has a certified quality management system according to			

WeissBioTech GmbH has a certified quality management system according to ISO 9001:2015 and a certified Food Safety Management System according to FSSC 22000 incl. HACCP, which are reviewed in regular audits.

Made by WeissBioTech GmbH, Germany

To the best of our knowledge, the information contained herein is accurate and complete. However, nothing herein contained shall be construed to imply any warranty or guarantee.

MILK-O® is a registered trademark of WeissBioTech GmbH. Our technical advice on the uses of our products is given without obligation. WeissBioTech is not responsible for the application and processing of the products by the customer or any third party. The customer is solely liable to comply with the applicable laws and regulations, and intellectual property rights of third parties. This document contains product specifications that may be altered without prior notice.

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