



Lyofast LPAL

Description	Lyofast LPAL consists of a selected strain of <i>Lactobacillus plantarum</i> producing bacteriocins. Lyofast LPAL is a protective culture inhibiting unwanted bacteria, like <i>Listeria monocytogenes</i> and generally <i>Listeria</i> spp. The culture is applied as surface treatment of cheese		
	Product	Dose/100 Product	Dose/100 I
Culture information	Inoculation guideline for probiotic application: 1 dose is 10 ¹¹ CFU and inoculated in 100 I milk 1 dose gives approx. 10 ⁶ CFU/mI milk.		
	Optimal temperature for growth	25-45 °C	
Storage	Unopened pouches should be kept at or below -18°C.		
Package data	The freeze-dried culture is packed in waterproof and airproof aluminium pouches. Lyofast LPAL is available in 10 and 50 UC.		
Shelf life	18 months when stored at or below -18 $^{\circ}$ C. The shelf life includes up to 14 days of shipment at temperatures below 30 $^{\circ}$ C.		
Heavy metal specification	Pb (lead) Hg (mercury) Cd (cadmium)	< 1 ppm < 0.03 ppm < 0.1 ppm	
Microbiological specification	Bacillus cereus Coagulase positive staphylococci* Enterobacteriaceae Escherichia coli Listeria monocytogenes* Moulds & yeasts Salmonella spp* * Analysed on regular basis. All analytic (1)ISO 7932; (2)ISO 6888-1-2; (3)ISO 2 6611/IDF 94; (7)ISO 6785/IDF 93;		
GMO	The microbial strains are not genetically modified (GMO) in accordance with the European Directive 90/220/EEC. The strains are isolated from natural sources. The raw materials used are also GMO free in accordance with Regulation (EC) No. 1829/2003 and Regulation (EC) 1830/2003. Statement available upon request.		
Allergens	The raw materials used are generally based on dairy ingredients. All materials are free of the following components and their derivates: peanut, tree nut, sesame, egg, fish, shellfish, mollusc, crustacean, sulphite, wheat, celery, mustard, soy and lupine. Statement available upon request.		
Safety information Material Safety Data Sheet available on www.saccosrl.it			
Certificate	Lot certificate available upon request.		
ISO Kosher approval M91LPAL/1/UK/0	Sacco S.r.I. is UNI EN ISO 9001:2008 certified since 1998. Sacco cultures are generally Kosher approved except for surface ripening cultures. Issue: 30/06/2011 Review: 1 of 07/10/2011 1/2		





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- **Service** Please contact your distributor for guidance and instructions for your choice of culture and processing. Information about additional package sizes and sales units is also available upon request.
- Liability This information is based on our knowledge trustworthy and presented in good faith. No guarantee against patent infringement is implied or inferred.