



Lyofast LPR A

- Description Lyofast LPR A consists of a selected strain of Lactobacillus rhamnosus and a selected strain of Lactobacillus plantarum. Lyofast LPR A is a protective culture inhibiting unwanted bacteria, yeasts and moulds. Lyofast LPR A may be applied in generic probiotic products such as e.g. fermented milk products and in feed. Furthermore, Lyofast LPR A might also be used for pharmaceutical purpose. The culture develops a weak acidity and aroma from slow citrate fermentation.
- Application Sprinkle the culture powder directly into process milk under aseptic conditions ensuring that the culture is well dispersed by gentle stirring. The culture is applied as a protective culture as follows:

	Product	Dose/100 Product	Dose/100 I
	Fresh cheese	1.0-2.5 Soft cheese	0.5-2.0
	Semi-hard cheese	0.5-2.0 Hard cheese	0.5-2.0
	Fermented milk, mesophilic	1.0-3.0 Fermented milk, long set	thermophilic 0.5-1.0
	Fermented milk, thermophilic short set	1.0-3.0	
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 Acid tolerance	+++
	Bile tolerance	+++ Adhesion test	++
Storage	Unopened pouches should be kept at or below -18 $ m C$.		
Package data	The freeze-dried culture is packed in waterproof and airproof aluminium pouches. Lyofast LPR A is available in 10 and 50 UC.		
Shelf life	18 months when stored at or below -18°C. The shelf life includes up to 14 days of shipment at temperatures below 30°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*	<100 CFU/g <10 CFU/g <10 CFU/g <1 CFU/g Not detected in 25 g <10 CFU/g Not detected in 25 g	Method: Sacco M10 (1) Method: Sacco M11(2) Method: Sacco M2 (3) Method: Sacco M27 (4) Method: Sacco M13 (5) Method: Sacco M3 (6) Method: Sacco M12 (7)
	* Analysed on regular basis. All analytical methods are available upon request. (1)ISO 7932; (2)ISO 6888-1-2; (3)ISO 215281-2; (4)ISO11866-1-2/IDF 170-1-2; (5)ISO 11290-1-2; (6)ISO 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		
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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.

ISOSacco S.r.I. is UNI EN ISO 9001:2008 certified since 1998. Sacco cultures are
generally Kosher approved except for surface ripening cultures.

- **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.