



## 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 l Product	Dose/100 l
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, thermophilic long set	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 l milk 1 dose gives approx.  $10^6$  CFU/ml milk.

Optimal temperature for growth	25-45 °C	Acid tolerance	+++
Bile tolerance	+++	Adhesion test	++

### 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 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)	< 1 ppm
Hg (mercury)	< 0.03 ppm
Cd (cadmium)	< 0.1 ppm

### Microbiological specification

<i>Bacillus cereus</i>	<100 CFU/g	Method: Sacco M10 (1)
Coagulase positive staphylococci*	<10 CFU/g	Method: Sacco M11(2)
Enterobacteriaceae	<10 CFU/g	Method: Sacco M2 (3)
<i>Escherichia coli</i>	<1 CFU/g	Method: Sacco M27 (4)
<i>Listeria monocytogenes</i> *	Not detected in 25 g	Method: Sacco M13 (5)
Moulds & yeasts	<10 CFU/g	Method: Sacco M3 (6)
<i>Salmonella</i> spp*	Not detected in 25 g	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 derivatives: peanut, tree nut, sesame, egg, fish, shellfish, mollusc, crustacean, sulphite, wheat, celery, mustard, soy and lupine. Statement available upon request.

### **Contains**

Maltodextrin.

### **Certificate**

Lot certificate available upon request.

### **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.