



Lyofast LR B

Description

Lyofast LR B consists of a selected strain of *Lactobacillus rhamnosus*. Lyofast LR B is a protective culture inhibiting unwanted bacteria like *Listeria* spp, yeasts and moulds. Lyofast LR B may be applied in fermented milk products and cheese products as non-starter culture lactic acid bacteria. The culture develops a weak acidity and aroma from slow citrate fermentation. Furthermore, Lyofast LR B might also be applied in generic probiotic products, for pharmaceutical purpose, and in feed.

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 I 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, 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 10¹¹ CFU and inoculated in 100 I milk 1 dose gives approx. 10⁶ CFU/mI milk.

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

Storage

Unopened pouches should be kept at or below -18℃.

Package data

The freeze-dried culture is packed in waterproof and airproof aluminium pouches. The material packaging is food grade. Lyofast LR B 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)
 < 1 ppm</td>

 Hg (mercury)
 < 0.03 ppm</td>

 Cd (cadmium)
 < 0.1 ppm</td>

Microbiological specification

Bacillus cereus <100 CFU/g Method: Sacco M10 (1) Coagulase positive staphylococci* <10 CFU/g Method: Sacco M11(2) Method: Sacco M2 (3) Enterobacteriaceae <10 CFU/g <1 CFU/g Method: Sacco M27 (4) Escherichia coli Listeria monocytogenes* Not detected in 25 g Method: Sacco M13 (5) Moulds & yeasts <10 CFU/g Method: Sacco M3 (6) Salmonella spp* Method: Sacco M12 (7) Not detected in 25 g

GMO

The microbial strains are not genetically modified (GMO) in accordance with the European Directive 2001/18/CE. 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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^{*} 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;





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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, cereals containing gluten, 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 Sacco S.r.l. is UNI EN ISO 9001:2008 certified since 1998. Sacco cultures are

Kosher approval 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.

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