



Lyofast ABC 1

Description

Lyofast ABC 1 consists of *Lactobacillus acidophilus, Lactobacillus casei*, and *Bifidobacterium animalis* ssp. *lactis* in the ratio 1:1:1. Lyofast ABC 1 may be applied in generic dairy products such as fermented milk products, and cheese. The culture develops a weak acidity and aroma from slow citrate fermentation depending on processing.

Application

Inoculation guideline for dairy application: sprinkle the culture powder directly into process milk under aseptic conditions ensuring that the culture is well dispersed by gentle stirring.

Product	Dose/100 I	Product	Dose/100 I
Fresh cheese	0.8-2.5	Soft cheese	0.7-2.0
Semi-hard cheese	0.5-1.5	Hard cheese	0.3-1.0
Fermented milk, mesophilic	2.0-10.0	Fermented milk, thermophilic long set	1.0-5.0
Fermented milk, thermophilic short set	2.0-10.0		_

Culture information

Inoculated in 100 I milk 1 dose gives approx. 10⁶ CFU/ml milk.

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

Storage

Unopened pouches should be kept below -17℃.

Package data

The freeze-dried culture is packed in waterproof and airproof aluminium pouches. The packaging material is food grade. Lyofast ABC 1 is available in 10 and 50 UC.

Shelf life

18 months when stored below -17℃.

Heavy metal specification

 Pb (lead)
 < 1 ppm</td>

 Hg (mercury)
 < 0.03 ppm</td>

 Cd (cadmium)
 < 0.1 ppm</td>

Microbiological specification

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

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^{*} Leavel of heavy metal is controlled on regular basis.

^{*} 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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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

and Regulation (EC) No. 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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