

# Lyofast Y 450 B

**Description** **Lyofast Y 450 B** consists of specifically selected strains of a mild acidifying *Lactobacillus delbrueckii* ssp. *bulgaricus* and of a fast acidifying *Streptococcus thermophilus* which produces EPS enhancing viscosity, to ensure a uniform and controlled production of very mild set and stirred yoghurt with high viscosity..

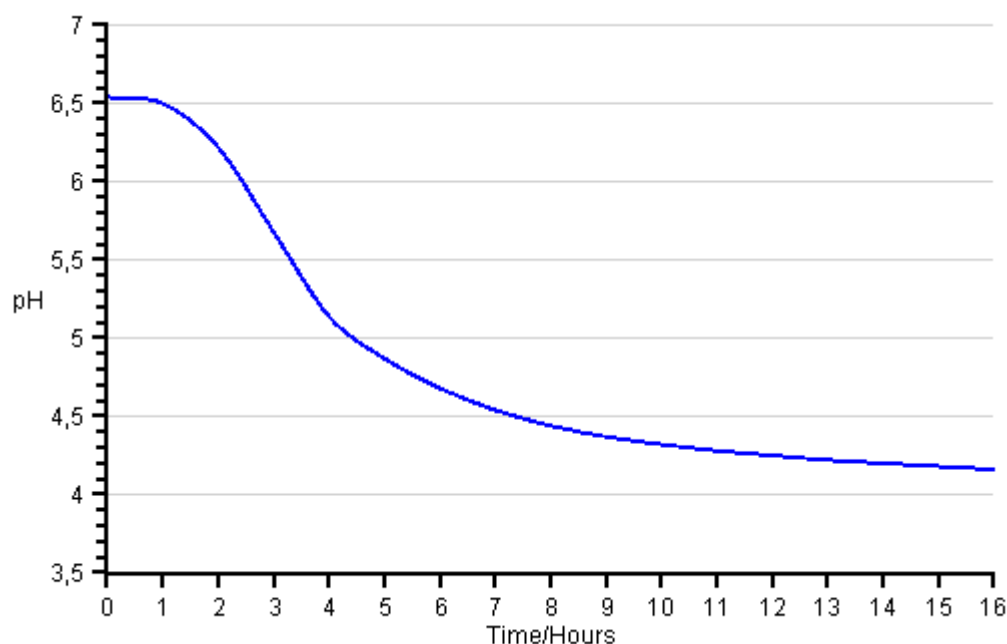
**Application** Sprinkle the culture powder directly into process milk under aseptic conditions ensuring that the culture is well dispersed by gentle stirring. The following may be used as inoculation guidelines:

Product	UC/100 l	Product	UC/100 l
Yoghurt, short set	2.0-4.0	Yoghurt, long set	0.5-1.0

**Rotation** The recommended rotations are Y 452 B/Y 456 B.

**Acidification information** Standardised laboratory acidification test is conducted in milk powder, reconstituted at 9%, at defined temperature.

Acidification profile: inoculation level corresponding to 1 UC per 100 litres milk.  
Standard activity: expressed as temperature/time/pH relations: 43°C/7 hours/pH 4.5 ± 0.15.



**Culture information** Data are obtained under standardised laboratory conditions, and consequently, should be considered as guidelines.

Optimal temperature for growth	43 °C	Urease activity	+
Acidification capability	pH 4.0	Texture formation	5.8 ± 1 sec/g
Aroma formation for yoghurt	+(+)	Post-acidification	Δ pH 0.27

**Storage** Unopened pouches should be kept below -17°C.

**Package data** The freeze-dried culture is packed in waterproof and airproof aluminium pouches. The packaging material is food grade. Lyofast Y 450 B is available in 10 and 50 UC.

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<b>Shelf life</b>	18 months when stored below -17°C.		
<b>Heavy metal specification</b>	Pb (lead)	< 1 ppm	
	Hg (mercury)	< 0.03 ppm	
	Cd (cadmium)	< 0.1 ppm	
	<i>Analysed on regular basis.</i>		
<b>Microbiological specification</b>	<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 spp</i> *	Not detected in 25 g	Method: Sacco M12 (7)
	<i>* Analysed on regular basis. All analytical methods are available upon request. (1)ISO 7932; (2)ISO 6888-1-2; (3)ISO 21528-1-2; (4)ISO11866-1-2/IDF 170-1-2; (5)ISO 11290-1-2; (6)ISO 6611/IDF 94; (7)ISO 6785/IDF 93.</i>		
<b>GMO</b>	The microbial strains are not genetically modified (GMO) in accordance with the European Directive 2001/18/EC. 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.		
<b>Allergens</b>	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, cereals containing gluten, celery, mustard, soy and lupine. Statement available upon request.		
<b>Safety information</b>	Material Safety Data Sheet available on <a href="http://www.saccosrl.it">www.saccosrl.it</a>		
<b>Certificate</b>	Lot certificate available upon request.		
<b>ISO Kosher approval</b>	Sacco S.r.l. is UNI EN ISO 9001:2008 certified since 1998. Sacco cultures are generally Kosher approved except for surface ripening cultures.		
<b>Service</b>	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.		
<b>Liability</b>	This information is based on our knowledge trustworthy and presented in good faith. No guarantee against patent infringement is implied or inferred.		