

PRODUCT DESCRIPTION - PD 212994-3.0EN

Material no. 90200

YO-MIX™ 863 LYO 500 DCU

YO-MIX™ Yogurt Cultures

Description

Freeze-dried concentrated lactic starter for the direct vat inoculation of milk and milk bases.

Usage levels

Product	Dose
Fermented milk yogurt	10 - 20 DCU / 100 l of vat milk 10 - 20 DCU / 100 l of vat milk

The quantities of inoculation indicated should be considered as guidelines. Supplement cultures may be required depending on technology, fat content and product properties desired. We do not accept any liability in case of undue application.

Directions for use

Store at temperature < 4 °C in dry atmosphere. When stored at negative temperature, keep the sachet at room temperature for 30 to 60 minutes before opening. If not, the performance of the culture is affected. Prolonged exposure at room temperature will reduce performances. Check before use that the culture is in powder form. Add directly to the manufacturing milk as soon as the agitation blades of the vat are covered with milk. Avoid foam and air introduction in the milk.

Important recommendations:

If the product has formed a solid mass, it should be discarded. To keep bacteriophage contamination under control, ensure plant and equipments are cleaned and disinfected with appropriate products at regular intervals to limit bacteriophage concentration level. Avoid any system that brings back part of end products to the beginning of the processing line in order to limit phage propagation.

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Composition

Streptococcus thermophilus
Lactobacillus delbrueckii subsp. *bulgaricus*

Properties

- Freeze dried form facilitates the storage and handling of cultures.
- YO-MIX™ 863 LYO 500 DCU is a blend of selected strains for direct vat inoculation of manufacturing milk, these strains have been carefully chosen and combined to give a very quick acidification.
- YO-MIX™ 863 LYO 500 DCU starter culture is based on a Danisco patent application for a new *Streptococcus thermophilus* strain (strain n°CNM I-2980, granted French Patent FR 2 852 604, PCT patent application WO 2004/085607).
- This unique and traceable *Streptococcus thermophilus* strain highly contributes to texture and high organoleptic properties of YO-MIX™ 863 LYO 500 DCU.

Physical/chemical specifications

Quantitative/Activity standard

Test medium:

Sterilised reconstituted milk (10% solids)

Heated 20 min at 110 °C. Standardised to pH 6.60

Temperature: 42 °C

Inoculation rate: 20 DCU / 100 l

Delta pH: 1.35

Time to reach the delta pH: <= 3.5 hours

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Microbiological specifications

Microbiological quality control - standard values and methods

Coliforms	< 10 / g [1]
Enterococci	< 20 / g [2]
Yeasts	< 10 / g [3]
Moulds	< 10 / g [3]
Staphylococci coagulase positive	< 10 / g [4]
Listeria monocytogenes	neg. / 25 g [5]
Salmonella	neg. / 25 g [6]

[1] NF V08-015, IDF 73A-1985

[2] Gelose bile esculine sodium azide / 48 h at 37 °C

[3] NF V08-022, IDF 94B-1991

[4] NF V08-057, IDF 145A-1997

[5] NF V08-055, IDF 143A-1990

[6] NF V08-052, IDF 93B-1995

Storage

18 months from date of production at ≤ 4 °C

Packaging

Sachets made with three layers of material (polyethylene, aluminium, polyester). The following information is printed on each sachet: product name, pack size, batch n° and shelf life.

Quantity

Shipment cartons each containing 50 sachets

Purity and legal status

YO-MIX™ 863 LYO 500 DCU meets the specification laid down by the EU legislation.

Label food regulations should always be consulted concerning the status of this product, as legislation regarding its use in food may vary from country to country.

Safety and handling

MSDS is available on request.

Allergens

Below table indicates the presence of the following allergens and products thereof:

Yes	No	Allergens	Description of components
	X	cereals containing gluten	
	X	crustacean shellfish	
	X	eggs	
	X	fish	
	X	peanuts	
	X	soybeans	
	X	milk (including lactose)	
	X	nuts	
	X	celery	
	X	mustard	
	X	sesame seeds	
	X	sulphur dioxide and sulphites (> 10 mg/kg)	

Additional information

ISO 9001 certified

GMO status

YO-MIX™ 863 LYO 500 DCU does not consist of, nor contains, nor is produced from genetically modified organisms according to the definitions of Regulation (EC) 1829/2003 and Regulation (EC) 1830/2003 of the European Parliament and of the Council of 22 September 2003.

For the raw materials having the potential of being produced from genetically modified organisms, we have obtained written information from our suppliers stating that the raw materials are not produced from genetically modified organisms according to the definitions of the above mentioned EC Regulations.