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## **PRODUCT DESCRIPTION - PD 207498-4.0EN**

## GEO 13 LYO 10 D

CHOOZIT<sup>™</sup> Cheese Cultures

## Description

A key agent in the ripening of cheese, Geotrichum implants very rapidly on the cheese surface (first) and has a synergistic effect on the implantation (with the yeasts) of Penicillium candidum and on flora such as Brevibacterium linens that require a neutral environment.

### **Usage levels**

Product	Dose
goat milk cheese	1 - 2 doses / 1,000 l of milk
Camembert type	2 doses / 1,000 l of milk
Brie type	2 doses / 1,000 l of milk
Ripened speciality cheese	2 doses / 1,000 l of 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**

Incorporation in the milk accelerates the activity of the Geotrichum. Freeze-dried presentations can be inoculated directly into the milk, without rehydratation. However, freeze-dried Geotrichum must be re-activated (16 hours at  $+ 4^{\circ}$ C) before use in a spray/mist or in the reserve mix in the ripening room. We do not accept any liability in case of undue application.

### Composition

Geotrichum candidum

Material no. 50295

## **Properties**

- GEO 13 LYO 10 D is an intermediate yeast-like/mould-like form.

Rapid de-acidification of curd by metabolism of lactic acid due to rapid growth (24-48 hours) of a selected, easily controlled surface flora. Enzymatic activity is weak compared to Penicillium candidum, but aroma and flavour development is excellent. Enhances the implantation of Corynebacteria by neutralising the acid and producing growth stimulants. Enhances the final appearance of the cheese : less dense 'felt' of the Penicillium surface flora, reduced proteolysis (less ammonia) and contaminant control.

### **Microbiological specifications**

Microbiological quality control - standard values and methods

Cell count	8.0E+07 CFU / dose	
Tolerance:	from 7.2E+7 to 16.0E+7 CFU	
Enterobacteria Enterococci Staphylococci coagulas Anaerobic sulphite redu Yeasts Foreign moulds Aerobic mesophilic tota Listeria monocytogenes Salmonella	cing spores < 10 / g [9] < 10 / g [10] < 10 / g [10] < 00 / g [11]	
<ul> <li>[8] V08-054 Feb.1999 (reading 48 hours)</li> <li>[2] Gelose bile esculine sodium azide / 48 h at 37 °C</li> <li>[12] NF V08-057 Nov. 1994 part 1</li> <li>[9] V08-061 Oct. 1996 (With Meat Leaver SR medium)</li> <li>[10] V08-059 Nov. 1995</li> <li>[11] V08-051 Feb. 1999 (PCA + 9 % milk + 0.02 % pimaricin)</li> <li>[14] NF V08-052, May 1997</li> <li>[13] NF V08-055, August 1997</li> </ul>		

### Storage

18 months from date of production at  $\leq$  -18 °C 6 months from shipment date at + 4°C

The information contained in this publication is based on our own research and development work and is to the best of our knowledge reliable. Users should, however, conduct their own tests to determine the suitability of our products for their own specific purposes and the legal status for their intended use of the product. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for the infringement of any patents.

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## Packaging

These freeze-dried cultures are packaged in sachets. The following information is printed on each sachet: Product name, dosage, batch no and shelf life at -18°C.

### Quantity

Unit pack: box of 20 sachets

### **Purity and legal status**

GEO 13 LYO 10 D 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.

### Kosher status

KOSHER O-U-D

## Allergens

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

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

Local regulation has always to be consulted as allergen labelling requirements may vary from country to country.

### **Additional information**

ISO 9001 certified

### **GMO** status

GEO 13 LYO 10 D 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 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 above mentioned EC Regulations.

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## Material no. 50295