

nu-trish® L. casei-01

Product Information

Version: 9 PI EU EN 01-06-2021

Description

Thermophilic lactic acid culture.

The culture is a defined single strain with a long history of safe use.

Culture composition:

Lactobacillus paracasei

Material No: 706149 Color: Off-white to slightly reddish or brown

Size 20X25 g Format: FD-DVS Type Pouch(es) in box Form: Granulate

Storage and handling

< -18 °C / < 0 °F

Shelf life

At least 24 months from date of manufacture when stored according to recommendations. At $+5^{\circ}$ C (41°F) the shelf life is at least 6 weeks.

Application

Usage

The culture is used in the production of probiotic milk products. The culture can be applied alone or in combination with other lactic acid cultures, such as Bifidobacterium, L. acidophilus, Streptococcus thermophilus and yogurt cultures. A HACCP risk assessment has been carried out for fermented dairy products. For all other applications a risk assessment should be completed before the product is released for sale as food safety hazards will differ from fermented products.

Suggested dosage

It is recommended that the culture is inoculated according to the desired acidification speed and cell count in the final product. This may be influenced by parameters like milk base and fermentation temperature as well as interaction with other strains/cultures. The cell count in the final product may also be affected by pH, storage temperature and shelf life.

Directions for Use

Remove cultures from the freezer just prior to use. Do not thaw Disinfect the package prior to opening. Open the pouch and pour the freeze-dried granules directly into the pasteurized product using slow agitation. Agitate the mixture for 10-15 minutes to distribute the culture evenly. The recommended incubation temperature is dependent on the application in which the culture is used. For more information on specific applications see our technical brochures and suggested recipes.

Additional usage information

Under conditions of accelerated storage temperatures and high levels of malic acid, facultative heterofermentative bacteria like *L. paracasei* are capable of producing gas. Furthermore, this species is capable of degrading some synthetic food colors (azo dyes) which might cause decolorization of the product, especially at elevated storage temperatures.

Please consult your Chr. Hansen representative for the specific intention of using this culture in products with added fruit preparations containing high levels of malic acid like sour cherry and rhubarb and/or in products added synthetic food color (azo dye).

Range

L.casei-01 is available in frozen and freeze-dried form.

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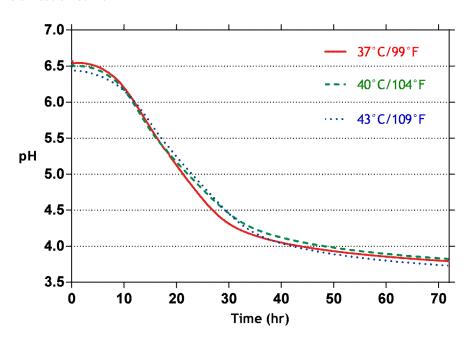
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Technical Data

Acidification curve



Fermentation conditions:

Reconstituted skimmed milk (14 %) with addition of 4 % glucose

(90°C/194°F, 60 minutes) Inoculation: 0.005 %

Analytical Methods

References and analytical methods are available upon request.

Dietary information

Kosher: Kosher Dairy Excl. Passover

Halal: Certified VLOG: Conform

Legislation

Chr. Hansen's cultures comply with the general requirements on food safety laid down in Regulation 178/2002/EC. Lactic acid bacteria are generally recognized as safe and can be used in food, however, for specific applications we recommend to consult national legislation.

The product is intended for use in food.

Food Safety

No guarantee of food safety is implied or inferred should this product be used in applications other than those stated in the Usage section. Should you wish to use this product in another application, please contact your Chr. Hansen representative for assistance.

Labeling

Suggested labeling "lactic acid culture" or "starter culture", however, as legislation may vary, please consult national legislation.

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Trademarks

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Technical support

Chr. Hansen's Application and Product Development Laboratories and personnel are available if you need further information.

GMO Information

In accordance with the below mentioned legislation of the European Union we can inform that:

nu-trish® L. casei-01 is not a GM (genetically modified) food *.

It does not contain or consist of GMOs and is not produced from GMOs in accordance with Regulation 1829/2003* on GM food and feed.

As such GM labelling is not required for $\underline{\text{nu-trish}}$ L. casei-01 or the food it is used to produce**. Moreover, the product does not contain any GM labelled raw materials.

* Regulation (EC) No 1829/2003 of the European Parliament and of the Council of 22 September 2003 on genetically modified food and feed.

** Regulation (EC) No 1830/2003 of the European Parliament and of the Council of 22 September 2003 concerning the traceability and labelling of genetically modified organisms and the traceability of food and feed products produced from genetically modified organisms and amending Directive 2001/18/EC.

Please note the information presented here does not imply that the product can either be used in, or is externally certified to be used in, food or feed labelled as 'organic' or 'GMO free'. Requirements to make these claims vary per country, please contact us for more information.

Allergen Information

| List of common allergens in accordance with the US Food Allergen Labeling and | Present as an |
|--|---------------|
| Consumer Protection Act of 2004 (FALCPA) and EU Regulation 1169/2011/EC with later | ingredient in |
| amendments | the product |
| Cereals containing gluten* and products thereof | No |
| Crustaceans and products thereof | No |
| Eggs and products thereof | No |
| Fish and products thereof | No |
| Peanuts and products thereof | No |
| Soybeans and products thereof | No |
| Milk and products thereof (including lactose) | Yes |
| Nuts* and products thereof | No |
| List of allergens in accordance with EU Regulation 1169/2011/EC only | |
| Celery and products thereof | No |
| Mustard and products thereof | No |
| Sesame seeds and products thereof | No |
| Lupine and products thereof | No |
| Mollusks and products thereof | No |
| Sulphur dioxide and sulphites (added) at concentrations of more than | |
| 10 mg/kg or 10 mg/litre expressed as SO ₂ | No |

^{*} Please consult the EU Regulation 1169/2011 Annex II for a legal definition of common allergens, see European Union law at: www.eur-lex.europa.eu

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