

R-704

Product Information

Version: 13 PI EU EN 07-06-2023

Description

This Chr. Hansen DVS™ culture contains defined mesophilic strains and is for continuous direct vat set use. The culture provides fast lactic acid production and high phage robustness without any CO₂ production (homofermentative).

Culture composition:

Lactococcus lactis subsp. cremoris
Lactococcus lactis subsp. lactis

Material No:	100123	Color:	Off-white to slightly reddish or brown
Size	25X200 U	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°C (41°F) the shelf life is at least 6 weeks.

Application

Usage

The culture is primarily applied in the production of cheeses with a closed texture, e.g. Cheddar, Feta and Cottage cheese.

Suggested dosage

As a principal rule 1000 U of freeze-dried DVS cultures will correspond to 100 l of active bulk starter. However, specific usage rates should be determined experimentally before a new application.

Recommended inoculation rate

Amount of milk to be inoculated (in liters)	500	2,000	5,000	10,000	15,000	20,000	25,000
Amount of DVS culture	50 U	200 U	500 U	1,000 U	1,500 U	2,000 U	2,500 U
Amount of milk to be inoculated (in lbs)	1,140	4,500	11,350	22,700	34,000	45,500	57,000
Amount of DVS culture	50 U	200 U	500 U	1,000 U	1,500 U	2,000 U	2,500 U

Designed for optimal performance, the composition and recommended inoculation rate for this culture were carefully developed by use of unique microbial strains, advanced biotechnological principles and more than 140 years of accumulated experience from the dairy industry.

Warning: Applying lower than recommended inoculation rate may cause undesired variation in product quality, lower production efficiency, product yield losses, potential fermentation failures and an increased risk of bacteriophage attacks.

R-704

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Directions for Use

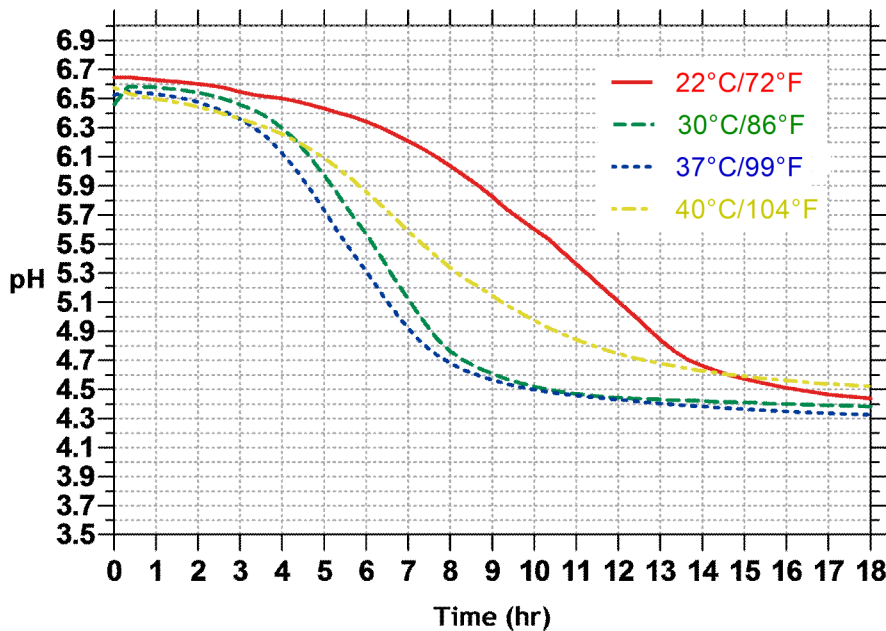
Remove cultures from the freezer just prior to use. Do not thaw. Disinfect the package prior to opening. Open the pouch and pour the freeze-dried granules directly into the pasteurized product using slow agitation. Agitate the mixture for 10-15 minutes to distribute the culture evenly. The recommended 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.

Range

Cultures in this series include R-703, R-704, R-707 and R-708 (freeze-dried), and R-603, R-604, R-607, R-608 and R-609 (frozen).

Technical Data

Acidification curve



Fermentation conditions:

Lab milk 9.5 % T.S.: 100°C/30 min

Inoculation: 500U/5000L

Other Information

Salt sensitivity:

- 50% inhibition: 5.5% NaCl
- 100% inhibition: >6.0% NaCl

Analytical Methods

References and analytical methods are available upon request.

Dietary information

Kosher: Kosher Dairy Excl. Passover
 Halal: Certified
 VLOG: Conform

Legislation

R-704

Product Information

Version: 13 PI EU EN 07-06-2023

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.

Trademarks

Product names, names of concepts, logos, brands and other trademarks referred to in this document, whether or not appearing in large print, bold or with the ® or TM symbol are the property of Chr. Hansen A/S or an affiliate thereof or used under license. Trademarks appearing in this document may not be registered in your country, even if they are marked with an ®.

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:

R-704 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 R-704 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.

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Allergen Information

List of common allergens in accordance with the US Food Allergen Labeling and Consumer Protection Act of 2004 (FALCPA) and EU Regulation 1169/2011/EC with later amendments	Present as an ingredient in 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