

Welcome to Chr. Hansen – the world's most sustainable food ingredients company

Since 1874, Chr. Hansen has been working to help dairy companies throughout the world to produce high quality cheese and fresh dairy products. Today, Chr. Hansen has grown to be the leading supplier of novel dairy ingredients with over 40,000 strains of bacteria.

Chr. Hansen was ranked as the world's most sustainable company in 2019 by Corporate Knights during the World Economic Forum. In 2020, we cemented our position by coming in second on the list – and ranking as the most sustainable food ingredients company.

We continuously collaborate closely with our customers. We wish to ensure that we can always help and inspire you to select the right ingredients for a given application. The needs and requirements of our valued customers are first priority and the main driving force behind our R&D.

In this catalogue, we provide an overview of our global cheese solution ranges comprising of every essential ingredient needed for best-in-class cheesemaking (for acidification, ripening, bioprotection, coagulation and yield optimization). We recommend that you contact your local Chr. Hansen contact person or local sales agent for further guidance.









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Global mega trends pave path for new opportunities in the cheese world

Categories Mega trends Food for thought **Healthy convenience:** Increased demand for healthy on-the-go Which consumer needs are driving your innovation? snacking call for producers to use fewer recognisable ingredients. How are you managing the interplay of consumer Consumer **Premiumisation:** Accelerating interest in authenticity, naturalness expectation on taste, health, safety, convenience and values and sustainability create room for premium cheese ranges. authenticity to differentiate yourself? Rising middle class: Increasing purchase power in emerging What are your initiatives to address growing middlemarkets enable transition from basic staple food to packaged food. class population? **Demographics** Ageing population: Increase in interest for innovative food What products are you innovating to address lowproducts that enable healthy ageing for population over 65 years. appetite in older population? What proactive steps are you taking to focus on rising **Shifting market frontiers:** As competition intensifies in mega-cities, many new fast-growing cities are gaining economic importance. consumer base in emerging cities? **Economics Consolidation:** Increase in M&A activity mean that large dairy How do you assess the competency of suppliers and partners who can assist in your integration efforts? players need to manage speed of integration of acquired plants. Automation: Use of automation and big data allow efficiency and How will you enhance production efficiency through scalability in production, leaving more time for innovation. automation and use of data? **Technology and science** Bioinformatics: Genome sequence analysis leads to new insights Do you ever wonder what was in your starter cultures' DNA? about culture physiology and interactions. **Carbon reduction**: Increased focus on environmental impact of How can you make tasty protein alternatives to meat? **Environment and** meat production has led to development of alternative proteins. sustainability **Responsible consumption:** Responsible supply chain and food How can you use the power of beneficial bacteria to further a strong sustainability agenda? waste reduction is becoming an important agenda for companies. **Empowered activism:** Consumer associations and NGOs push for What is your strategy for managing the complexity of new standards for e.g. vegetarian, organic, halal, kosher, non GMO *labelling standards and requirements?* Regulation **Deglobalisation:** Long established global trade agreements are How are you managing the local regulatory being replaced by local bilateral agreements e.g. in US and UK. bureaucracy in export markets? CHR HANSEN

Improving food & health

Key trends influencing each player in the value chain from farm to fork











Milk suppliers

- Industrialization
- Supply consolidation
- Vilization of new milk types

Cheese producers

- Innovation speed
- > Product differentiation
- Efficiency and automation
- **Scalability**
- Yield improvement
- > Waste reduction

Converters and manufacturers

- > Performance improvement
- > Shelf life extension
- > Traceability
- Semi-finished cheese trading

Retailers and food service

- Supply chain simplification
- Transparency and traceability
- **E-commerce**
- Active consumer intelligence
- Food waste reduction
- > Functionality in foodservice

Demanding consumers

- **>** Taste
- Variety
- > Premiumisation
- **>** Convenience
- Natural
- > Sustainability
- Affordability





We are committed to solving challenges in cheesemaking with our deep expertise

- > Cater to specific customer needs with our tailored offerings
- > Leverage our technical expertise through a strong global application network

Greater than the sum of its parts – Partner to deliver lasting impact

Our core competency areas		Your value creation and business impact			
Superior products	The very best - Cheese cultures and enzymes portfolio	 > Proven ingredients for any cheese applications - on specification > Solutions that secure your consistent delivery – risk management > Solutions that increase your output – yield optimization > Solutions that kick-start new business opportunities for you - growth 			
Superior services	Proactive partnering - Co-development for value realization	 Innovation days and co-creation of new products Market insights sparring, regulatory and market development Employee training sessions and strategy outlooks Connect to the world - Support from our local sales organization 			
	Engaged and strong application experts - Technical support to tackle complex problems	 Full, best-in-class technical application and laboratory services Ingredient customization to specific customer needs and products Trials, production audits and trouble-shooting 			
	On-time delivery - Global reach and compliant	 On-time delivery via global setup Detailed, multi-language documentation and info Local application/service support every day 			



Overview of Chr. Hansen solutions

Starter cultures	Rennet and coagulants	Ripening cultures and enzymes	Functionality enzymes
Acidification solutions for consistent performance and flexibility in use	Coagulation solutions for more cheese and improved whey quality	Adjunct solutions for flavor perfection, improve appearance and efficiency	Functional solutions for yield, flavor, texture and lactose-free cheeses
 > Frozen DVS® > Freeze dried DVS® > Frozen EASY-SET® 	 CHY-MAX® Supreme, CHY-MAX® M and CHY-MAX® (FPC coagulants) MICROLANT®, HANNILASE® and THERMOLASE® (Microbial coagulants) NATUREN® and BIOREN® (Animal rennet) 	 DVS® CR DVS® LH DVS® PS SWING® SPICE-IT® 	 YieldMAX® LactoYIELD® Ha-Lactase™ NOLA® Fit AFILACT® CHRISIN
Bioprotection	Natural colors	Test kits	Data and services $g = g = g = g$
Bioprotective solutions to control yeasts, molds and gas formation	Natural color and coloring foodstuff solutions for visual appeal	Solutions to track quality and food safety improvements	Data and equipment solutions for automation and efficiency
 FreshQ® BioSafeTM 	 WhiteWhey® Beta carotene and Natural beta carotene Annatto/Norbixin/Bixin Paprika, Paprika+Annatto, Paprika+Beta carotene Chlorophyll 	 > LactoSens™ > BRT® high sense > MilkSafe™ 	 PhageWatch™ CoaguSens® ElastoSens® CHR. HANSEN-CLIPPER® AISY REMCAT standards

We deliver every essential ingredient for best-in-class cheesemaking for all cheese types

	Cheddar	Continental and swiss	Cottage cheese	Grana	Pasta filata	Soft cheese	White cheese
Starter cultures	/						
Rennet and coagulants							
Ripening cultures and enzymes							
Functionality enzymes							
Bioprotection							
Application excellence							



Three core areas for accelerating business growth

Manage	Create the future		
Risk Minus Solutions to secure consistent delivery	Yield Plus Solutions to increase output	Growth Multiply Solutions to kick-start new business opportunities	
 Secure consistent quality without additional investment/CAPEX Mitigate production crisis with phage management teams Enable efficient consolidation of multiple plants Eliminate food safety risks when entering new markets 	 Get more value out of your current and future production set-up and drive your CSR agenda Capitalize fully on the value of your total output and drive your CSR agenda Lower your cost/cheese volume and increase whey value Capture high-value opportunities by being flexible 	 Inspire and transform new product developments that fit market trends Enable expansion into new markets through a local approach Innovative concepts to make you win in premium categories Renew interest in existing product lines by line extensions 	

Our innovative solutions, expertise and competencies are here to co-create the future with you.



New innovations in the spotlight

Risk Minus

Solutions to secure consistent delivery



DVS® BioSafe™ & FreshQ® for food waste reduction

- > Culture solutions to help reduce late blowing in continental cheese caused by Clostridia contamination.
- Culture solutions to help improve quality and reduce waste with increased robustness against yeast and mold spoilage.

+1%

CHY-MAX® Supreme coagulant for significant yield increase

- > Fermentation produced coagulants documented by CoaguSens™ tool.
- Help improve yield up to +1%, achieve faster and precise production, achieve superior functionality.

Yield Plus

Solutions to increase output



DVS® STi and EASY-SET® i400 cultures for superior food service performance

- > Unique set of cost effective, reliable and fast acidifying solutions.
- Help producers of pasta filata and pizza cheese to secure performance.



EASY-SET® FLORA 100/900/1000C cultures for flexible line extension without CAPEX

- Unique set of multiple robust mesophilic culture solutions.
- Help producers of continental cheese like gouda, edam and semi-hard cheeses secure performance.

Growth Multiply

Solutions to kick-start new business opportunities



DVS® PS-50 for the premiumization trend and memorable moments

- New tasty member to platform of ripening culture (propionic bacterium).
- Help reach flavor perfection and famous eye formation in swiss and massdam types even with modern process optimization.



DVS® PureAppeal™ take control of browning for pure pizza appeal

- Reduce the degree of browning by up to 100% and achieve predictable appearance.
- > Protect your pizza cheese from yeast and mold spoilage throughout the supply chain.



Cheddar cheese

Market trends

Efficiency and yield improvement

To get the highest value out of the milk, manufacturers continuously optimize with focus on improvement of efficiency and yield

Product range diversification

Regional consumer demand for variety within format, flavor and/or texture leads to an increase in number of product launches

Designed for convenience

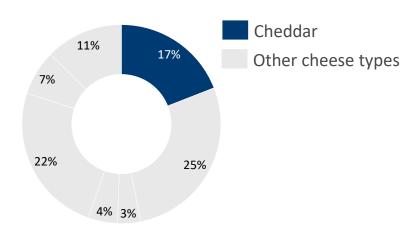
- Globally 46% of consumers eat cheese as a snack¹
- Due to large versatility in taste, texture and cheese body, cheddar serves as a popular base for innovative, convenient snacks

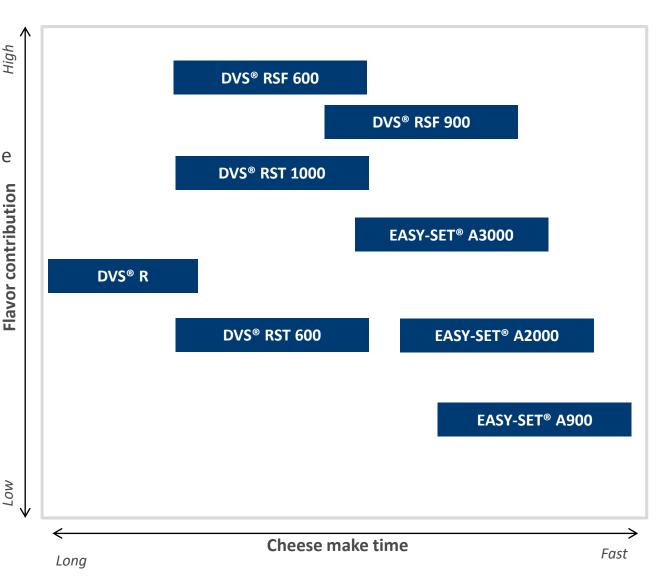


Cheddar cheese market and starter cultures overview

Market facts

- > Global cheddar production volume: 4.1m tons
- > Expected growth: 2-3% towards 2025
- US manufacturers produce more than 60% of the total production volume





Continental and swiss cheese

Market trends

Commoditization of the basic

Growing demand for basic continental cheese fueled by private label brands¹

Growth via premiumization

- > 50% of EU-consumers want to try new types of cheese for different meal occasions¹
- More authentic cheeses that involve craftsmanship with sophisticated flavor profiles

Convenience as a constant

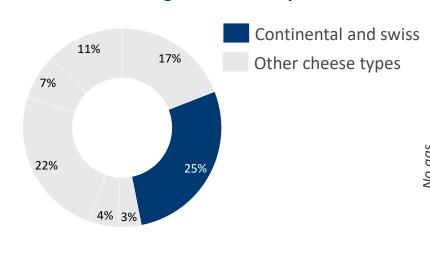
- Rise of convenient on-the-go and ready-touse cheese (e.g. for sandwich making)¹
- Demand in foodservice for cheese ingredients to function as desired in professional kitchens

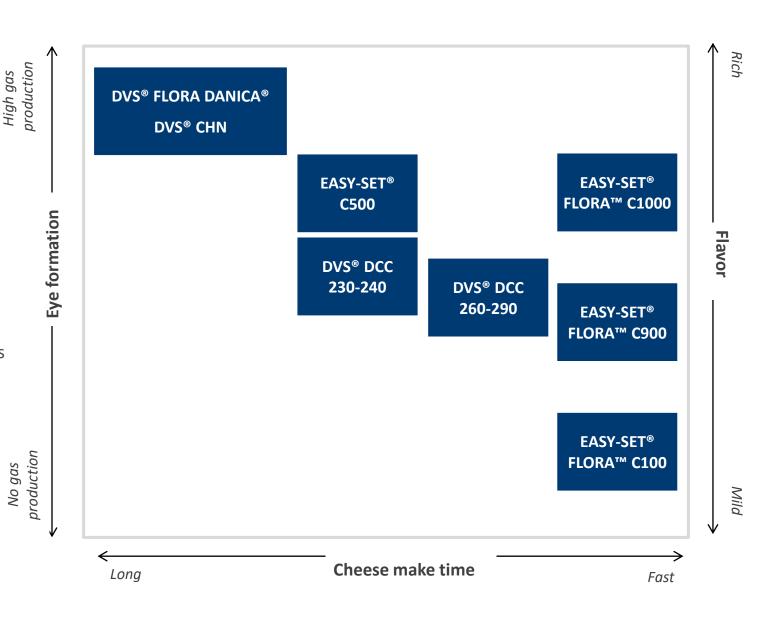


Continental and swiss cheese market and starter cultures overview

Market facts

- Global production volume: continental4.6m tons, swiss cheese 1.1m tons
- > Expected growth: 1-2% towards 2025
- Continental including swiss cheese is the most widely produced cheese type







EASY-SET® FLORA™: Revolutionary starter cultures for minimal risk in continental cheese

- > Increase yield up to 1% and reduce downgrades by up to 50% by reducing variation in production
- > Simplify your production by shortening culture make time from 18-24hrs to 10mins with a single-step process



PhageWatch™: Enabling effective phage management for consistent production

- > Leverage our expertise, robust culture ranges, and digital resources to manage your risk of phage
- > Our services include sample testing, phage and process reviews, regular meetings and transparent reporting on our PhageWatch™ digital tool

Cottage cheese

Market trends

Healthy convenience

- > Busy lifestyle calls for healthy snacking/ staying full longer
- Need for food with high energy density for athletic diet and weight control

Threats from other segments

Offerings like Greek yogurt and skyr intervene the traditional cottage cheese market. New sources of differentiation required

New edge healthy home cooking

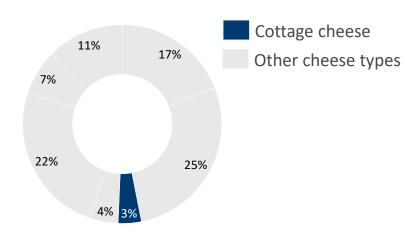
- Cottage cheese has healthy appeal with low fat (4%) and high protein (11%) content
- Affordable and low fat alternative to other cheese types, e.g. cream cheese and ricotta

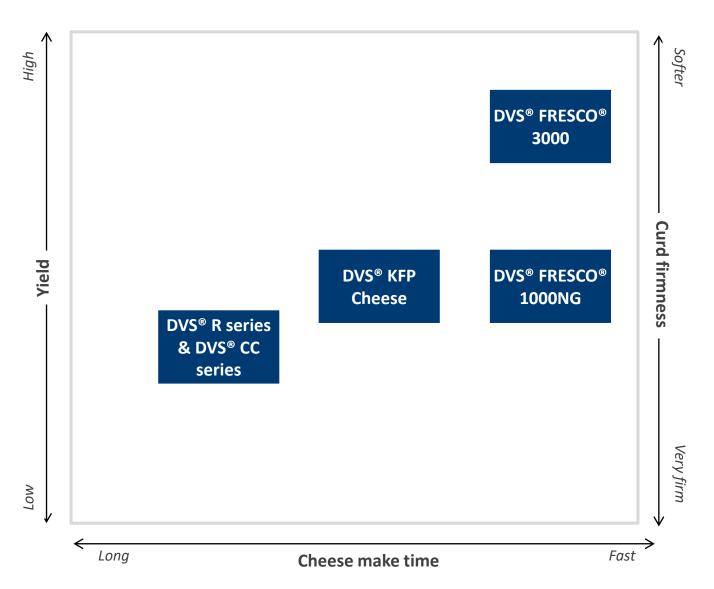


Cottage cheese market and starter cultures overview

Market facts

- > Global production volume: 0.8m tons
- > Expected growth: 2-3% towards 2025
- Cottage cheese is primarily produced in North America, Germany, Poland and Scandinavia.





Grana cheese

Market trends

Consumer demand for authenticity

Consumer desire for authentic flavor and variety has led to increased penetration in foodservice and retail

Versatile technology

Growing production of grana type on nongrana cheese equipment, primarily driven by North America²

Grana and parmesan go "glocal"

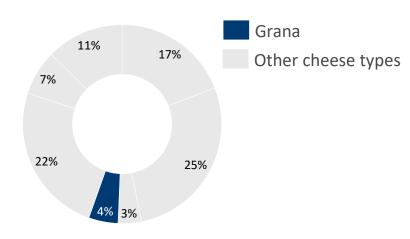
- Globalization of grana and parmesan cheese types inspired by the heritage of parmigiano-reggiano and grana padano
- Regional growth driven by e.g. Italian style pecorino and South American styles cotija and reggianito²

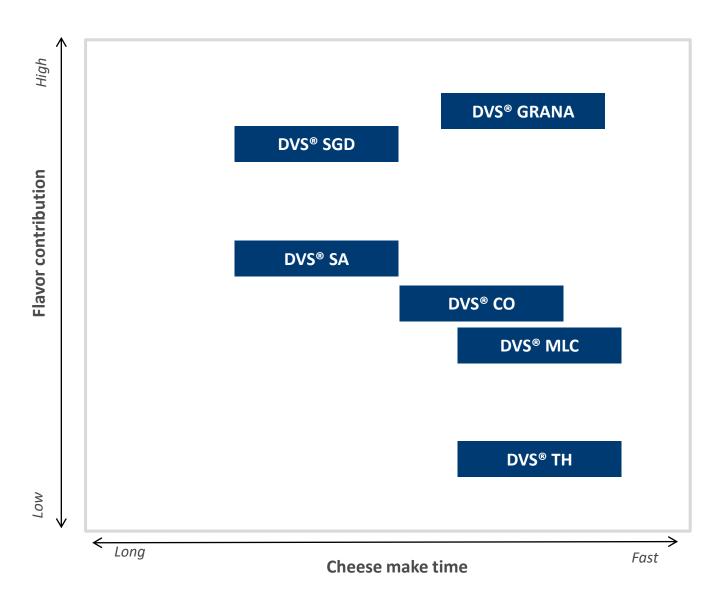


Grana cheese market and starter cultures overview

Market facts

- > Global production volume: 1m tons
- > Expected growth: 3-4% towards 2025
- > Italy and US produces 45% and 25% of global grana cheese respectively





Pasta filata

Market trends

Increased pizza consumption

- > 78% of all pizzas have mozzarella as topping¹
- Growth in global consumption of pizza in both mature and emerging markets, driven by appeal of cheese stretching and browning

Busy life-style demands convenience

- Development of convenient packaging formats for quick meals, both at and away from home¹
- High nutrition per cost value for pasta filata in pizza

Global acceptance of heritage

Local heritage varieties such as kashkaval and oaxaca have penetrated mainstream markets

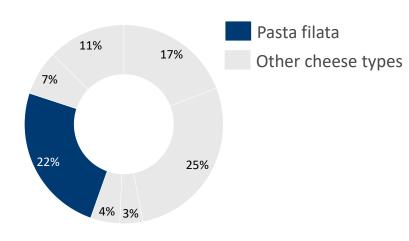


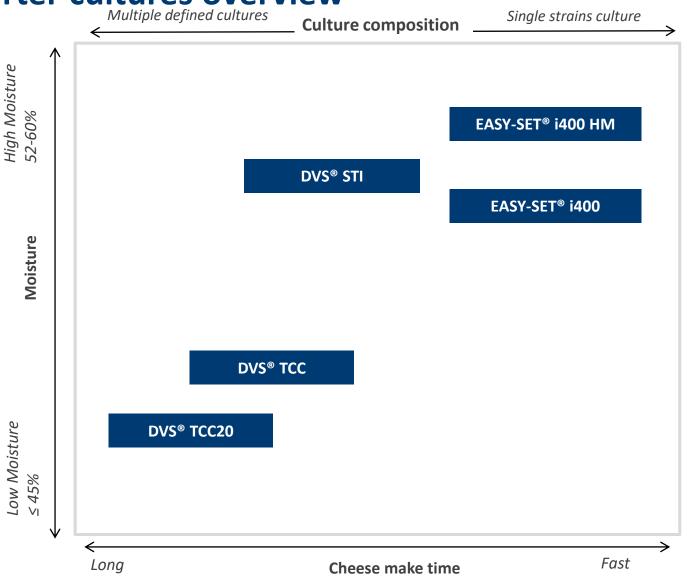
Pasta filata market and starter cultures overview

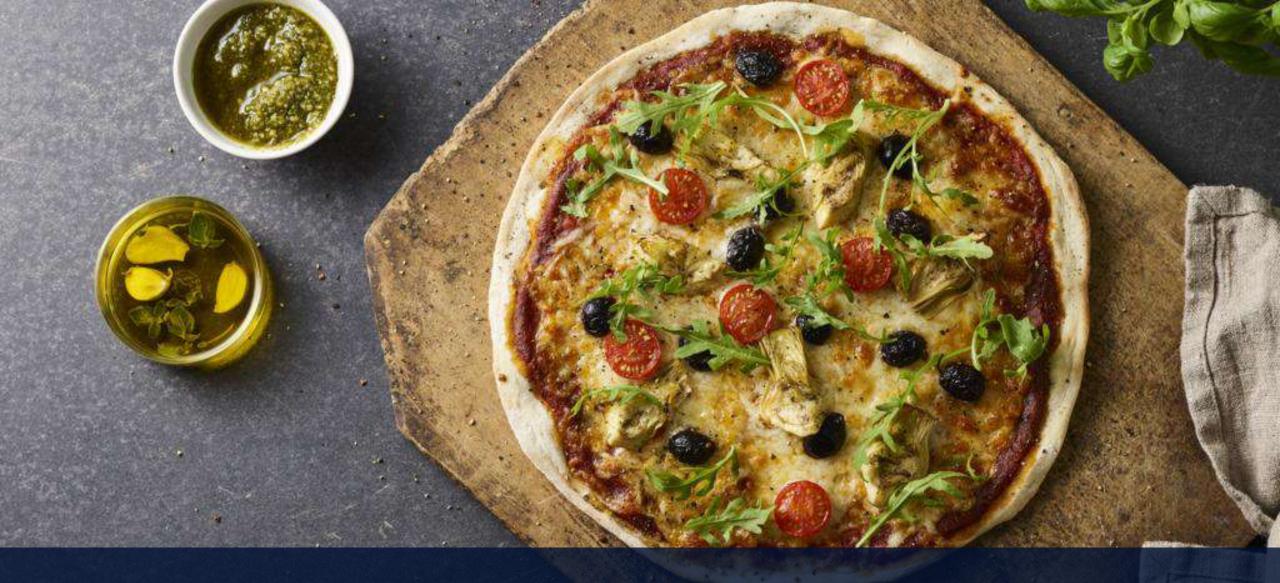
Low Moisture

Market facts

- Global production volume: 5.6m tons
- Expected growth: 3-5% towards 2025
- Large investments are being made to increase global production capacity







Use our cohesive mix of solutions for the perfect "instagrammable" pizza

- > Ensure consistent production with DVS® STi starter culture, increase yield with CHY-MAX® coagulant
- > Control browning with F-DVS® Pure Appeal™ culture, improve functionality with YieldMAX® enzyme



Create authentic soft cheese experiences for modern consumers

- > Create unique flavor profiles with DVS® solutions and appealing visual look with SWING® solutions
- > Achieve both craftsmanship character and consistent quality even at industrial scale

Soft cheese

Market trends

Premiumization via craftsmanship

- Small producers use authentic storytelling to position their unique cheese varieties
- Industrial cheese makers are finding new ways to tap into this trend to drive growth

Convenience for producers and consumers

- > 46% of global consumers eat cheese as a snack¹
- Growth in food service and international trade³ demand for consistent texture and taste

"Instagramability"

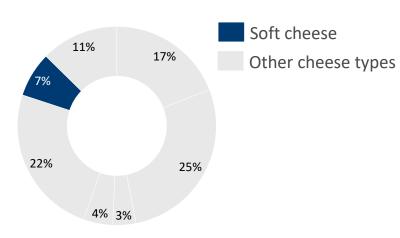
The rise of social media as a platform to share food pictures fuel large varieties of soft cheese with complex surface and visual appeal

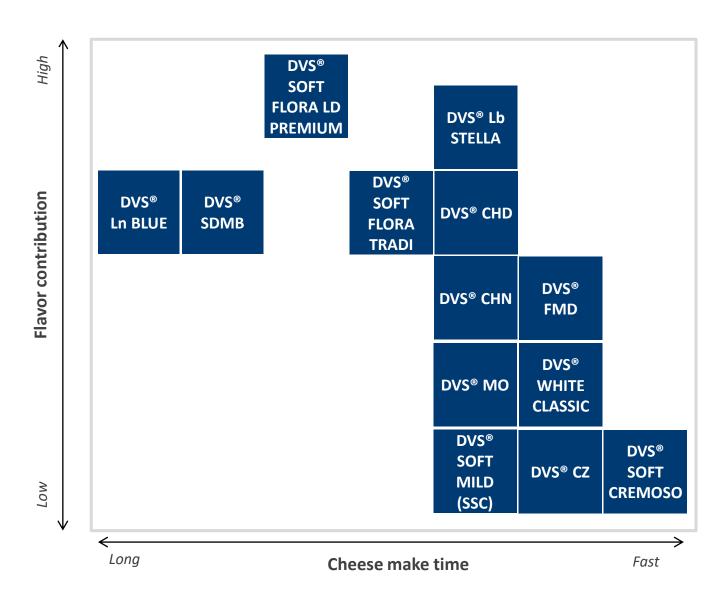


Soft cheese market and starter cultures overview

Market facts

- > Global production volume: 1.6 m tons
- > Expected growth: 1-2% towards 2025
- > 80% of global production is made in 5 countries: France, Germany, Italy, Canada and Argentina





White cheese

Market trends

Middle class growth and convenience

- Feta-style white brined cheese is one of the fastest growing cheese types worldwide
- Increasing demand for convenient formats for salads and hot cooking

Tradition goes global

Traditional Mediterranean style white cheese is attractive globally due to healthy appeal in salads and as a meat alternative¹

Evolving technology for differentiation

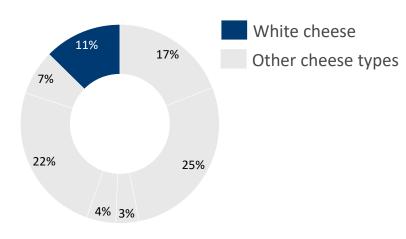
- Large developments in technologies for white cheese production
- To stay ahead, deep knowledge of the interaction between milk base, cultures, enzymes and processing conditions is vital

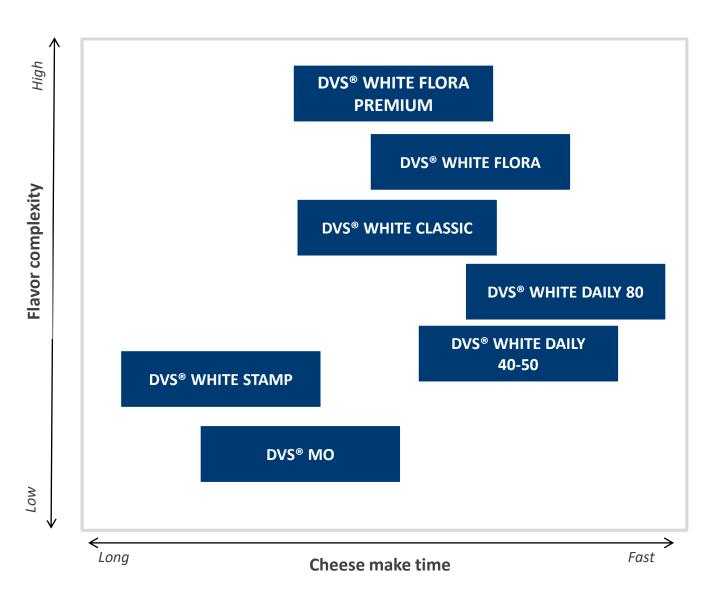


White cheese market and starter cultures overview

Market facts

- > Global production volume: 2.8m tons
- > Expected growth: 3-5% towards 2025
- Over 80% of global volume is produced in the Greater Middle East, but a steady growth of production in Europe and North America.





Ripening cultures and enzymes

Market trends

Premiumization as growth enabler

- Growing demand for authenticity opens opportunity for industrialization of crafted cheese that drive profitable business.
- 25% of all continental cheese product launches in Europe promote premium price positioning.¹

Taste as key purchase driver

- Consumers are curious to discover new flavors and cheese types. Flavored cheese accounted for 25% of cheese launch activity in North America. ¹
- 36% of consumer find taste as the most important motive when purchasing nonprocessed cheese, before they look at price and brand.⁴



Our ripening solutions cover three distinct areas of differentiation

Flavor perfection



Improved surface and appearance



Controlled ripening speed



3 flavor segments for new as well as traditional flavor:

- Core for everyone: clean, creamy, buttery and fresh
- Character for explorers: fruity, nutty, savory and roasted
- Connoisseur for experienced: farmhouse, sulfur, piquant and earthy

Customized solutions for diverse texture, surface and appearance needs:

- Surface coating: White mold, yeast and aerobic bacteria
- **Veins formation:** Blue mold
- > Eye formation: Propionic bacteria

Solutions to optimize the cheese life cycle:

- Accelerated ripening: Take products faster to market by reducing ripening time and saving costs
- Extension of shelf-life: Reduce waste by increasing the sales window Increase export opportunities



Overview of ripening solution ranges











DVS®CR

Lactobacillus
Lactococcus lactis & cremoris
Flavor perfection

- Create clean and fresh flavor and reduce bitterness.
- Achieve broad range of exotic flavors by combining CR and LH strains- buttery, sulfur, cheesy and fruity flavor

DVS®LH

Lactobacillus helveticus

Flavor perfection

- Experience sweetness and roasted notes along with reduced ripening time.
- Increase the quality of low-fat cheese
- Aid in the formation of crystals on long ripening cheeses.

DVS®PS

Propionic acid bacteria

Flavorful perfection

Create different flavor possibilities from mild buttery to sharp and pungent.

Improved appearance

Master the eye formation via different gas production potential.

SWING®

Yeast and mold

Improved surface and appearance

Create unique appearance and flavor with different propositions of yeast, mold and bacteria.

Controlled ripening speed

Prolong time to market using different SWING® solutions.

SPICEIT®

Animal and microbial lipase

Flavor perfection

Explore the diversity of flavors from animal and microbial lipases. SpiceIT® is the range of lipases that break down lipids and creates piquant flavor.





Tap into the growing premiumization trend with our ripening expertise

- > Target diverse consumer niches through a rainbow of 12 flavor profiles
- > Create authentic appearance and even new visual signature

Three flavor areas for diverse consumer needs in cheese

CORE



CLEAN



BUTTERY



CREAMY



FRESH

CHARACTER



FRUITY



SAVORY



NUTTY



ROASTED

CONNOISSEUR



FARMHOUSE





PIQUANT



EARTHY



Our ripening solutions to enable you to cater to diverse flavor needs

CONNOISSEUR CHARACTER CORE DVS® Delight™ DVS® CR-540 *** **SWING® MIC SALSA-1** DVS® CR-213 DVS® PS-1 ** SWING® B. LINENS BL-1 **DVS® CR-319** Bouquet 01 * DVS® PS-40 **** DVS® CR-Mature 01 **SWING® B. LINENS BL-2 SWING® FD GEO-CH SWING® LAF-5** DVS® PS-50 ** DVS® PS-60 ***** **SWING® GEO CA SWING® LAF-7** DVS® PS-80 ***** SWING® GEO-CB **SWING® GEO-CD-1** CLEAN CREAMY FRUITY NUTTY FARMHOUSE SULFUR SWING®P.R. PR-1 **DVS® CR-Buttery** SWING® LAF-3 DVS® CR-Savory 01 DVS® LH-B02 *** SpiceIT® AG SpiceIT® AL SWING® P.R. PR-3 **DVS® SDMB-4 DVS® LH EMFOUR®**** SWING® B. CASEI BC DVS® CR-Savory 02 SWING® P.R. PR-4 **DVS® SDMB-8** DVS® CR-550 DVS® LH-32 ** SpiceIT® AM SWING® P.R. PRG-3 DVS® LH-B01 ** SpiceIT® AC SWING® PC TT-033 SpiceIT® MR DVS® CR-520 * SWING® FD PCA-1 SpiceIT® MPlus **SWING® FD PCA-3** BUTTERY FRESH SAVORY ROASTED PIQUANT EARTHY

Pink = Eye formation

Blue = Affects surface or appearance © 2019 Chr. Hansen A/S. All rights reserved.



^{* =} Level of sweetness

Rennet and coagulants

Market trends

Yield and functionality

- Continuous focus on maximizing value of milk through higher cheese yield and better whey quality
- Increasing demand for cheese as an ingredient and convenient formats call for functionality improvements during production³

Preservative-free and organic

- > Big surge towards preservative-free coagulants globally
- Increasing consumer interest for organic and more natural foods with fewer ingredients¹

Sustainability

UN global goals as a proactive tool to measure business impact. E.g. ensure sustainable consumption and production patterns



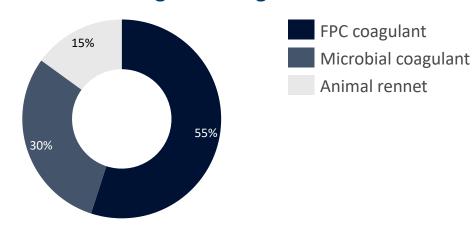
Rennet and coagulants market and solutions overview

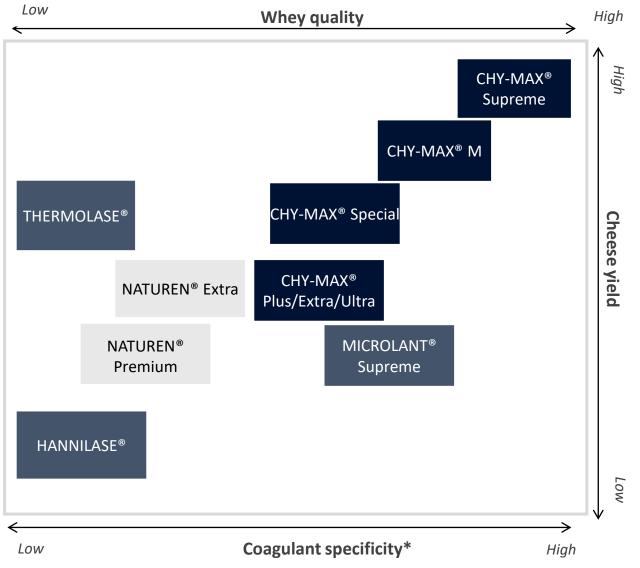
Chymosin produced by fermentation (FPC) - Most used cheese coagulant. Delivers consistency and high cheese quality, higher cheese yield and improved whey quality

Microbial coagulants - Introduced in the 1960s. The ideal alternative, when there is a need to combine the demands for organic and vegetarian in one and same production

Animal Rennet - Traditional cheese coagulant. Great choice for high quality cheese with flavor intensity

Volume share of global coagulant use





^{*} Coagulant specificity is the ratio between desired and undesired protein breakdown. High specificity leads to firmer texture and reduced bitterness and vice versa.



CHY-MAX® Supreme

Groundbreaking coagulant CHY-MAX® Supreme is raising the industry standard



Higher yield

Gain up to 1% more cheese yield* through higher fat and protein recovery



Superior functionality

Less waste during slicing, grating or shredding through improvement in texture and shelf-life prolongation



Faster and more precise production

Higher vats production (up to 10% increase increase) Efficient cheese production through faster and more precise coagulation in cheese vats



Better whey quality

Additional value creation through reduction of fat, fines and sediments in whey

*Moisture adjusted



CoaguSens™: Empowering data-driven optimization of coagulation

- > Map coagulation process to enable cutting at same firmness
- > Access to real-time data to help identify issues and to maximize yield

Functionality enzymes

Market trends

Yield as an industry driver

Cheesemakers are constantly seeking to produce considerably more cheese out of the same amount of milk

Growing demand for lactose free

- An estimated 65% of the global population to experience some kind of lactose intolerance¹
- Industry analysts forecast the global lactose free cheese market to grow 10% annually leading up to 2023³

Waste reduction on the rise

In Europe alone, 29m tons of dairy products are lost or wasted every year. Producers are looking for natural options to extend the shelf life of cheese



Functionality enzymes











AFILACT®
Lysozyme

Protection

Natural and safe option to avoid spoilage of cheese (late blowing & off flavor) caused by clostridia in milk.

Preferred option to avoid nitrate addition that is unwanted for certain whey qualities. Ideal for all cheese types.

CHRISIN Nisin

Protection

A natural antimicrobial compound that inhibits the growth of a wide range of Gram-positive bacteria including spore-forming bacteria. Results in improvement of cheese quality and shelf life extension.

NOLA®Fit / Ha-Lactase™
Lactase

Lactose-Free

Unique and valuable opportunities to build your brand and address market needs for 'lactose free' products, while maintaining an authentic cheese flavor.

LactoYIELD®
Cellubiose oxidase

Yield boost

A novel enzyme that converts lactose to lactobionic acid. Used in cheese processes where an extra step is applied, like in pasta filata and cheddar cheeses. Significantly increases yield in cheese production with a limited effect on cheese functionality.

YieldMAX® Phospholipase

Yield boost

An enzyme that primarily contributes to 1.8% yield improvement in pasta filata cheese. Helps improved functionality in aged/mature and fresh cheeses.



Bioprotection Keep it great!

Market trends

Sustainability

As the environmental impact of dairy production gains more media attention, brands need to continue to reassure consumers that they are striving to mitigate the climate impact of dairy farming and production, e.g. through improved production efficiency or lower waste

Real food

Staying in tune with consumer interest in cleaner labels, more cheese brands are adopting a natural positioning with less artificial ingredients

Consistent quality

77-94% consumers in main cheese markets of Europe say they enjoy shopping for cheese.¹ Consumers expect their favorite cheese brand to have the same great look and taste that they like, each and every time

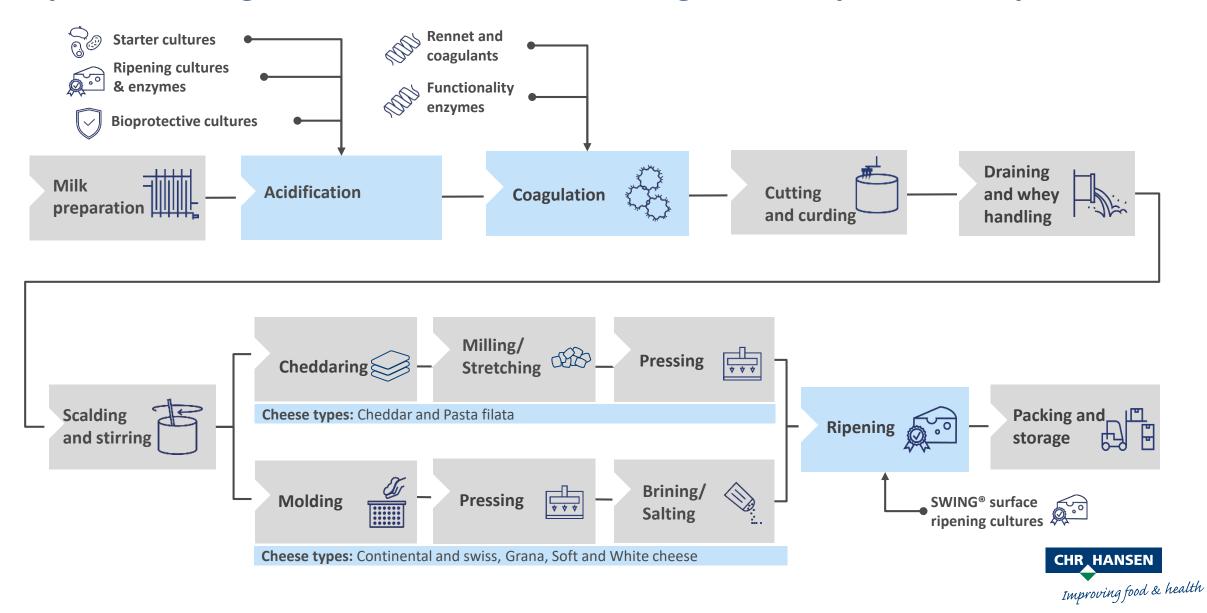




BioSafeTM: Natural bioprotective solutions for your sustainability initiatives

- > Deliver consistent cheese quality by preventing late blowing and off-flavor development
- > Enhance the naturalness of cheese and whey by avoiding addition of nitrate and lysozyme

Specialized ingredients create value throughout the production process





Cheddar cheese cultures

						C	ulture performa	nce		Produ	ct form	
Culture name	Product range		Cultu	re type		Acidification	Phage	Flavor		Freeze-dried		Frozen
		0	ST	LbH	LD	speed	robustness	contribution	30X50U	25X200U	20X500U	10X500U
	603											704633
	604											704634
	607	•				4	3	3				704635
	608											704636
	609											716403
DVS® R	KFP 604											704659
	KFP 608	•				4	3	3				704657
	703								713580	100122	100156	
	704						_		713477	100123	100157	
	707	•				4	3	3	713487	100124	100158	
	708								713581	100125	100159	
	630											704643
	632											704648
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	635	, and the second				7	7	-				704654
	643											704637
	676											704638
DVS® RST	743								713592	100242		704038
DV3 K31	743	•	•			4	4	2	713332	100242	100409	
	776	•	•			4	4	2			100409	
	1010									701877	100247	717727
												717728
	1020	_				4	4	4				717730
	1030	•	•			4	4	4				
	1040											717731
	1050											717732
	636											704645
	637											704646
	638											704647
	639	•	•	•		4	4	5				704652
	640											704651
	641											704653
	651											705251
DVS® RSF	653											705254
	621	•	•	•	•	4	4	5				704641
	736	•	•	•		4	4	5	713619		703082	
	742	_		-		7	-	,	713618		703063	
	925											704670
	940											704671
	945	•	•	•		5	5	5				704672
	950											714352
	960											714353

Cheddar cheese cultures

			Cultura trus		Culture p	performance	Product form
			Culture type	uo	ss	uo	Frozen
Culture name	Product range	0	ST	Acidification speed	Phage	Flavor contribution	6X1000U
	3010						712117
	3020						712123
EASY-SET® A3000	3030		_	4	_	4	712124
EASY-SET® A3000	3040	•	•	4	5	4	712125
	3050						712127
	3060						715183
	2010						683734
	2020						683735
	2021						705284
	2026						704416
	2040						683736
	2041						705362
5 4 6 V 6 5 7 8 4 6 6 6 6	2045						694905
EASY-SET® A2000	2055	•	•	4	4	2	683737
	2065						698298
	2070						704057
	2076						704418
	2090						691294
	2120						702560
	2130						702562
	910						666120
	920						666123
	925						698301
	926						706886
	940						666284
EASY-SET® A900	945	•	•	5	4	1	668824
	955						673781
	965						699023
	980						689545
	986						707656
	47 990						691292

Performance rating on a scale from 1 to 5, where 1 is low and 5 is high

Continental cheese cultures

Culture name range DVS® CHN 19 DVS® FLORA DANICA	e LD	D	L	ture ty	pe ST	LbH	LbP	Acidification speed	Phage robustness	Flavor contribution	Gas production	30x10U		reeze-drie	ed					Fro	zen			
11 DVS® CHN 19 12 DVS® FLORA	•	D	L	O	ST	LbH	LbP	Acidifi spe	Ph ₂ robus	Fla	G? produ	30x10U	3072011											
DVS® CHN 19 12 DVS® FLORA	•												307300	25X200U	20x350U	20X500U	350g	250U	10X350U	12x375U	10X500U	6X700U	5X750U	7X750U
DVS® FLORA	•												713490	100126		100160					704679			
DVS® FLORA	•							2	4	5	3		713582	100127		100161					704694			
																					704697			
								1	4	5	4	713630	713493	100129		100163					704685			
EASY-SET® 150																					708649		710588	
FLORA C100 160				•				4	5	2	0										708650		710589	
170																					714083		714084	
EASY-SET® 501																					710342			692798
FLORA C500 502								3	5	4	4										708597			692780
503																					708599			703153
EASY-SET® 950																					708651		708652	
FLORA C900 960			•	•				4	5	3	2										708653		708654	
970																					716244		716245	
EASY-SET® 1050									_											712227	708655		708656	
FLORA 1060		•	•	•				4	5	5	4									712228	708657		708658	
C1000 1070																				715519	715518		715517	
230		_		•				4	4	4	3										704683 704690			
232		•		•				4	4	5	3										704690			
260								4	4	3	5				668195				704687		704062			
DVS® DCC 270															008193				704689					
265																	707701		704083			712229		
275	•			•	•	•	•	4	5	5	3						707701					712230		
280																	707702		704691			712230		
290															702933				701031					
02															702333			674715						
DVS® STEM 03					•			5	4	1	0							674716						

Cottage cheese cultures

						Culture perfo	ormance			Product fo	rm	
Culture name	Product range	Cultur	e type	ıtion d	ustness	ır ıtion	ıre	oating I	Freeze-dried		Frozen	
Culture Harrie	Floudet lange			Acidification speed	Phage robustness	Flavor contribution	Moisture	Risk of floating curd	20X500U	10X500U	5X1000U	6X1000U
		0	ST	,	Pha			Ξ				
	10										713390	
	20										713391	
DVS® FRESCO® 1000NG	30	•	•	5	5	2	4	0			713843	
	40										713844	
	50										717562	
	10											697941
	20											697942
DVS® FRESCO® 3000	40	•	•	5	5	2	5	0				697944
	60											713943
	70											715773
	2									704710		
DVS® CC	4			4	4	2	4	1		704711		
DA2, CC	6	•		4	4	2	4	1		704712		
	8									704713		
	604			4	4	2	4	1		704634		
DVC@ D	608	•		4	4	2	4	1		704636		
DVS® R	704	_							100157			
	708	•		4	4	2	4	1	100159			
	1											697228
	3				_							699643
DVS® KFP CHEESE	4	•	•	5	5	2	4	1				699646
	5											703376

Grana cheese cultures

				Culture type				Culture pe	erformance				Product form	ı	
0.11	Product						ion _	ess	ion	0 9		Freeze	e-dried		Frozen
Culture name	range	ST	LbB	LbH	LbL	LbP	Acidification speed	Phage robustness	Flavor contribution	Thermo tolerance					
		3.	200	Lon		251	Acic	rok	Con	F 9	20X50U	25X50U	25X200U	20X500U	10X500U
DVS® SGD	Premium	•	•	•	•	•	3	5	4	5	713361				
	102														704798
DVS® GRANA	105	•	•	•		•	4	4	5	4					710781
	106														710782
DVS® SA	500	•	•	•			3	4	4	4	710466			711574	
DVS® CO	03	•	•	•			4	4	3	4		706263		706520	
DVS® MLC	300	•			•	•	4	4	3	4			681239		
DVS® TH	4	•					4	4	1	4					704872

Pasta filata cultures

							Cul	ture performa	nce				Produc	t form		
Culture name	Product range		Cultur	e type		Acidification speed	Phage robustness	Flavor	Moisture	Browning control		Freeze-dried			Frozen	
	runge	ST	LbH	LbB		Acidifi	Ph	Fla	Mois	Brov	30X50U	25X200U	20X500U	8X500U	10X500U	5X1000U
DVS® Pure Appeal™	01	•			•	1	5	1	1	5					720986	
	405													690870		689846
EASY-SET® i400	410	_				_	_	2	_	1				690871		690807
High moisture	415	•				5	5	2	5	1				693645		693646
	450													691479		668365
	420													694687		694688
EASY-SET® i400	455	_				_	4	2	4	1				688871		668366
Standard moisture	460	•				5	4	2	4	1				688872		670167
	475													688873		677238
D1/6@ 6=6	KFP 8														716455	
DVS® STC	KFP 9	•				3	4	1	4	1					720332	
	6														704889	
	7														705901	
	8	•				5	5	2	4	1					707752	
	9														707753	
DVS® STi	10														715693	
	12										713516	697993	705353			
	13					_	_	_			713612	697994	705355			
	14	•				5	5	2	4	1	713610	698000	705357			
	15										714890	714891	713821			
	3										713497		100140			
	4										713590		100144			
DVS® TCC	5	•		•		4	4	4	4	1			601695			
	6												601697			
	20	•	•			3	3	5	4	3	713498		100227		704873	
DVS® TCC	50											711469				
	51	•	•			4	4	4	4	3		715426				

Soft cheese cultures

		Cultum			Code							Product form	1		
		Cultur	е туре		Cun	ture performa	ince		Freez	e-dried			Frozen		
Culture name	Product range	ST	LbB	Acdification speed	Phage robustness	Flavor contribution	Gas formation	Smooth	30X50U	25X200U	20X250U	10X500U	9X500U (CLIPPER)	2X3000U (CLIPPER)	5X1000L
	17	•		2	3	1	0	5				704912			
	100											704927			
	102						•					708622			
	103	•		3	4	1	0	4				708211			
DVS® SOFT MILD	104											716198			
(SSC)	1-01													718422	
	1-02				_									713423	
	1-03	•		3	5	1	0	4						718424	
	1-04													718425	
DVS® ST-B	01	•		3	4	1	0	4	713494	100183					
	100			_			_				712568	707070			
DVS® CZ	101	•		4	4	1	0	4			715513	712198			
	1-01										719702				
	1-02										719703				
DVS® SOFT CREMOSO	1-03	•		5	4	1	0	4			719704				
	1-04										719705				
	06												712221	720455	
	07												712222	720456	
DVS® SOFT FAST	08	•		5	5	1	0	3						720457	
	09												713206		
	1-01								719710	719708					
	1-02								719711	719709					
	1-03	•	•	4	5	3	0	2		720011					
DVS® WHITE CLASSIC	1-04								720014						
	200										712191				
	201	•	•	4	5	3	0	2			713842				
	221	•	•	5	3	3	0	3							720887
DVS® Lb Stella			•	3	3	5	0	2				709943			

Performance rating on a scale from 1 to 5, where 1 is low and 5 is high

Soft cheese cultures

			Cultur	e type			Cult	ure perfor	mance				Produc	t form		
						u,	S	uc	ion	ure		Freeze-dried			Frozen	
Culture name	Product range	Ln	LD	D	O	Acidification speed	Phage robustness	Flavor contribution	Gas formation	Smooth texture	30X50U	25X200U	20X500U	20X250U	10X500U	2x3000U (CLIPPER)
DVS® SOFT FLORA LD PREMIUM	1-01					2	4	5	3	2					720803	
DV3° SUFT FLORA LD PREIVITUIVI	1-02		•			2	4	5	3	2					720804	
DVS® FLORA	FRESH		•			3	4	4	2	2					704925	
DV3 FLORA	TRADI		•			3	4	4	5	2					704707	
DVS® SOFT FLORA LD	1-01		•			4	4	4	2	1						719696
DV3 SOFI FLORA LD	1-02		•			4	4	4	2	1						720697
DVS® FMD	0046		•			4	4	4	3	2					704919	
DV3 TNID	0114					7	7	4	3	2					704920	
DVS® CHN	14		•			1	4	5	4	3					704905	
DV3 CHIN	15		•			1	4	3	4	3					704906	
DVS® CHD	1			•	•	3	4	4	3	2					704918	
DV3 CIID	2					3	4	4	3	2					705412	
	4														704913	
DVS® SDMB	6			•		1	4	5	3	3					704916	
	8														712566	
DVS® SOFT FLORA D	1-01			•		1	4	5	3	3						718540
	10										713625		706428			
DVS® MO	20				•	3	4	3	0	1	713517		706429			
	30										713626		706430			
DVS® Ln BLUE	1-01	•				0	5	4	5	1				709241		

White cheese cultures

							Culture pe	rformance					Produ	ct form			
Culture name	Product		Cultu	re type		Acidification speed	Phage robustness	Flavor contribution	Moisture retention		Freeze-drie	1			Frozen		
	range -	o	ST	LbB	LbH	Acidifi	Phi	Fla	Mois	30X50U	25X200U	20X500U	20X50U	20X200U	20X250U	10X500U	5X1000U
	1-01									719710	719708						
	1-02		•	•		3	5	4	4	719711	719709						
	1-03		_	•		3	5	4	4		720011						
DVS® WHITE CLASSIC	1-04									720014							
	200		•	•		3	5	3	4						712191		
	201		<u> </u>	•		3	3	3	7						713842		
	221		•	•		5	3	3	4								720887
	40									713474							
	41									713591							
DVS® WHITE DAILY 40-50	42	•	•	•		4	4	4	2	713616							
	50									713595							
	51									713596							
	80									713620							
DVS® WHITE DAILY 80	81	•	•	•	•	5	5	5	3	713621							
	82									713622							
DVS® WHITE STAMP	1000		•			1	4	3	4				713705				
DV3 WITH STAIN	1001					_	7	3					713706				
	1															713475	
DVS® WHITE FLORA	2	•				3-4	5	4	4							717657	
	3															718384	
DVS® WHITE FLORA	1-01													720228			
PREMIUM	1-02	•	•			3	5	5	5					720229			
	1-03													720230			
	10									713625		706428					
DVS® MO	20	•				2	4	2	4	713517		706429					
	30									713626		706430					

Ripening cultures and enzymes

												Cul	ture perf	ormance				P	roduct for	m		
						Cultur	e type					uo	tion	ning	Freeze-dried				Frozen			
Culture name	Product range											Flavor contribution	Gas production	Faster ripening	25X200U	20X150U	10X200U	16X250U	10X475U	10X500U	6X1000U	3X2000U
		LbH	LbL	LbP	Lb-cu	Lb-jo	Lb-pl	Lb-rh	0	P ac	Lb-ac	00	Gas	Fast							JAI	
	213								•			3	0	1			704714					
	312								•			3	0	1						704716		
	319								•			3	0	1		713117				704717		
	520	•		•					•			5	0	3					704718			
	540	•	•						•			5	0	4					704719			
DVS® CR	550			•					•			5	0	2					704721			
DV3 CK	501	•		•					•			4	0	3						711064		
	Bouquet01		•			•			•			4	0	2						710317		
	Buttery01			•				•	•			4	0	2						710314		
	Mature01				•		•		•	•		4	0	2						710315		
	Savory01	•					•		•		•	4	0	3						714131		
	Savory02	•					•			•	•	4	0	3						714132		
DVS®	Delight 01	•										5	0	3								714130
	32	•										5	0	4				704806				
	B01	•										3	0	2						704803		
DVS® LH	B02	•										5	0	5	100185					704804		
	B03	•										4	0	3						705257		
	EMFOUR®	•										5	0	NA						704802		

Ripening cultures and enzymes

				Cu	Ilture performar	nce		Produ	ct form	
Culture name	Product range	Т	/pe	vor oution	as iction	Faster ripening	Freeze-dried		Frozen	
		D	PAB	Flavor contributic	Gas production	Fas	30X5U	20X250U	10X500U	20X500U
	1			3	2	3	713585		704891	
	4			5	4	4	713586	704894	704893	
DVS® PS	40			5	4	4			704896	
DVS° PS	50		•	3	3	4			718377	
	60			4	5	4				704898
	80			4	5	4				708144
DVS® SDMB	4			4	3	1			704913	
DA2. 2DIAIR	8	•		4	3	1			712566	

		T	Eı	nzyme performan	ce		Product form	
Enzyme name	Product range	Туре	ion	oduction	ning			
Litzyille Haille	Froductrange	Enzyme	Flavor contribution	pr	ter ripe		Powder	
		,	8	Gas	Faster	0.5kg	1kg	5L
	SpiceIT® AC, Calf Lipase		4				712149	
	SpiceIT® AG, Goat Lipase		4				712150	
SpiceIT [®]	SpiceIT® AL, Lamb Lipase		4	NIA	NA		712151	
Spiceri	SpiceIT® AM, Mixed Animal Lipase	•	4	NA	INA		712152	
	SpiceIT® MR, Microbial Lipase		5					710600
	SpiceIT® MPlus, Microbial Lipase		5			719181		

Ripening cultures and enzymes

				Culture performanc	е	Product form					
Culture name	Product range	Aroma	Taste	Descidification	Texture impact	Appearance		Freez	e-dried		Liquid
		Aroma	Taste	Deacidification	Texture impact	Appearance	5x10U	10U	40U	50U	10U
	SWING® B. CASEI BC	3	5	2	3	Neutral		200702			
SWING® BL/BC	SWING® B. LINENS BL-1	4	5	2	2	Orange		200699			
	SWING® B. LINENS BL-2	5	5	2	2	Very orange		200701			
	SWING® FD GEO –CH	4	5	5	3	Very white		683643			
	SWING® GEO CA	4	5	5	2	Beige					200691
SWING® GEO	SWING® GEO CB	4	5	5	2	Beige					200692
	SWING® GEO CD-1	3	5	3	2	White					200693
	SWING® LAF -3	2	5	5	2	Neutral		200941	674031		
	SWING® LAF -4	4	5	4	2	Neutral		200865			
SWING® LAF	SWING® LAF -5	4	5	4	2	Neutral		201016			
	SWING® LAF -7	5	5	4	2	Neutral		610590	674032		
	SWING® LAF TRIO	4	5	4	2	Neutral		201189			
	SWING® FD PCA-1	3	4	4	4	Very white		660413		660416	
SWING® PC	SWING® FD PCA-3	5	5	4	5	Very white		660450		660451	
	SWING® PC TT-033	5	5	4	4	Very white		670630			
	SWING® P.R. PR-1	3	4	3	3	Blue green	720860				
	SWING® P.R. PR-3	5	4	4	5	Dark green		200681			
SWING® PR	SWING® P.R. PR-4	4	4	4	5	Dark green		200977			
	SWING® P.R. PRG-3	4	4	4	5	Pale green		600740			
SIMING® SALCA	SWING® MIC SALSA-1	5	4	2	4	Yellow/orange		201026	674033		
SWING® SALSA	SWING® MIC SALSA-2	2	3	2	2	Neutral			674035		

Coagulants

Coagulant name		Coagulant performance				Product form											
	Product	d se	se	ess ess ness	Whey	Liquid				Liquid (No benzoat	e added)	Gran	ulate (No b	enzoate a	dded)	
	Troduct	Cheese yield	Cheese firmness	Bitterness propensity		12x0.1L	6x1L	5L	20L	1000L	5L	20L	1000L	100x20 tablets	20x0.05K G	20x0.5 KG	5 KG
	NATUREN® Extra 1000										115304						
	NATUREN® Extra 220						115203		115205	115210		111205					
	NATUREN® Extra 220 Halal	3	3	2	3						115604						
	NATUREN® Extra 1000 NB Halal										111604						
	NATUREN® Extra 1115 NB															140714	14072
	NATUREN® Premium 225								113105								
	NATUREN® Premium 195								112805			111805					
NATUREN®					2												
	NATUREN® Premium 145	3	2	3	2		113502	113504	113505		111504	111505					
	NATUREN® Premium 145 Halal								112505	112510		112405					
	NATUREN® Premium 1400 NB*															141214	
	NATUREN® Stamix 160											114205					
	NATUREN® Stamix 1150 NB*	2	1	4	2											145314	
	NATUREN® Stabo 230	1	1	5	2				118205								
	NATUREN® Cordero	2	2	3	2			112304									
	BioRen® Classic 80L150			3	2	401021	401002	401004	401005								
	BioRen® Classic 80LHA150	3	2						401205	401210		401105	401110				
	BioRen® Premium 95L230								411105			411205					
	BioRen® Premium 95LHA230	3	3	2	3							411405					
BioRen [®]	BioRen® Premium 97PHA100													410129	410111	410114	41012
	BioRen® Paste Dolce	3	2	1	2		421002										
	BioRen® Paste Semipiccante	3	2	1	2		422002	422004									
	BioRen® Paste Piccante	3	2	1	2		423002	423004									
THERMOLASE®	THERMOLASE®625	3	3	3	2							115705					
	MICROLANT® Supreme 750								206705			206905	206910				
MICROLANT® Supreme	MICROLANT® Supreme 200	2	4	2	3				206105		206204	206205	206210				
	HANNILASE® XP 750								115905	115910	118904	118905	118910				
	HANNILASE® XP 200	1	2	4	2			115804	115805	115810		118805	118810				
	HANNILASE® L 2000							116804	116805								
HANNILASE®	HANNILASE® L 205								116505								
	HANNILASE® L 2200 Powder	1	2	5	1											146014	
	HANNILASE® L 3000 Powder															146314	

Performance rating on a scale from 1 to 5, where 1 is low and 5 is high

Coagulants

			Coagulant p	erformance		Product form									
Coagulant name	Product range	e yield	Cheese	Bitterness propensity	Whey quality	Liquid			Liquid (No benzoate added)		Granulate (No benzoate added)				
		Cheese yield	Che			6x1L	5L	20L	1000L	20L	1000L	10x100 Sticks	80X0.075K G	20X0.5KG	5KG
	CHY-MAX® Supreme 1000				5	178602	178604	178605		178705					
CHY-MAX® Supreme	CHY-MAX® Supreme 200	5	5	1				178205		178305					
	CHY-MAX® Supreme 2500 Powder NB*													177214	
CHY-MAX® M	CHY-MAX® M 1000					127202	127204	127205	127210	129205	129210				
	CHY-MAX® M 600 KFP		4	1	4					128205					
	CHY-MAX® M 200	4				127502	127504	127505	127510	127405	127410				
	CHY-MAX® M 2500 Powder NB*													147214	
	FAR-M® Sticks											147028			
CHY-MAX® Special	CHY-MAX® Special 200	4	3	2	4					127305	127310				
	CHY-MAX® Ultra							117905	117910						
	CHY-MAX® Extra				3		117504	117505	117510	119505	119510				
	CHY-MAX® Plus						117404	117405	117410	119405	119410				
CHY-MAX®	CHY-MAX® Extra Powder NB*	3	3	2									142515	142514	142522
	CHY-MAX® Plus Powder NB*													142414	
	Hansen® Sticks											142425			

Functional enzymes

		Enzyme performance					Product form																		
Enzyme name	Product range	V'-1-I	F	Flores	Whey	Lactose- free			Liq		Powder														
		Yield	Firmness	Flavor			1L	6X1L	5L	20L	1000L	25KG	10X0,5KG	1KG	5KG										
	Instant				NA	NA							201063												
AFILACT®	mstant	NA	NA	NA											200989										
AFILACI	Fluid	IVA	INA	IVA		IVA		200722																	
	ridid									200724															
Chrisin	Chrisin C		NIA	NI A	210	NIA	NA	NA	NΙΛ	NA	NA	NA	NA	NA	NI A	N/A								671535	
Chrisin	Chrisin	NA	NA	NA	NA	NA								502095											
YieldMAX®	YieldMAX®	5	2	3	4	NA			191204	191205															
LactoYIELD®	LactoYIELD®	5	2	1	NA	NA						191306													
NOLA® Fit	NOLA® Fit 5500	NA	NA	5	NA	5		350502	350504	350505	350510														
II- ItTM	Ha-Lactase™ 5200	NA	NA	4	NA	4		450802	450804	450805	450810														
Ha-Lactase™	Ha-Lactase™ Plus 5500	NA	NA	5	NA	4			451904	451905	451910														

Bioprotection Keep it great!

			Culture type			Chees	se type		Product form				
Culture performance	Product name	o	Lb-rh	LbP	Continental & swiss	Pasta filata	Cottage cheese	sse	Freeze	e-dried	Frozen		
Culture performance	Frounct name							White cheese	25X100U	20X500U	10X65U	10X500U	
		10				•						704642	
Clostridia Inhibition	DVS® BioSafe TM	20	•			•						712976	
Clostridia innibition		30				•						712977	
		40				•						712978	
		1		•	•			•	•				711617
	DVS® FreshQ® Cheese	3		•				•	•	717513	717512		
Yeast & Mold Inhibition		4		•	•			•	•				717514
	DVS® Pure Appeal™	01	01				•						720986

Acronyms for Chr. Hansen cultures

	Culture type	Culture characteristics
0	Lactococcus lactis subsp. cremoris, Lactococcus lactis subsp. lactis	Mesophilic, Homofermentative, Flavor contribution
L	Leuconostoc spp.	Mesophilic, Heterofermentative, Gas production
D	Lactococcus lactis subsp. lactis biovar. diacetylactis	Mesophilic, Homofermentative, Flavor contribution, Gas production
LD	Lactococcus lactis subsp. cremoris, Lactococcus lactis subsp. lactis, Lactococcus lactis subsp. lactis biovar. diacetylactis, Leuconostoc spp.	Mesophilic, Heterofermentative, Flavor contribution, Gas production
ST	Streptococcus thermophilus	Thermophilic, Homofermentative
LbH	Lactobacillus helveticus	Thermophilic, Homofermentative, Flavor contribution
LbB	Lactobacillus delbrueckii subsp. bulgaricus	Thermophilic, Homofermentative, Flavor contribution
LbP	Lactobacillus paracasei	Mesophilic, Facultative heterofermentative, Flavor contribution
LbL	Lactobacillus delbrueckii subsp. lactis	Thermophilic, Homofermentative, Flavor contribution
Lb-cu	Lactobacillus curvatus	Mesophilic, Facultative heterofermentative, Flavor contribution
Lb-rh	Lactobacillus rhamnosus	Thermophilic, Facultative heterofermentative, Flavor contribution
Lb-pl	Lactobacillus plantarum	Mesophilic, Facultative heterofermentative, Flavor contribution
Lb-jo	Lactobacillus johnsonii	Thermophilic, Homofermentative, Flavor contribution
Lb-ac	Lactobacillus acidophilus	Thermophilic, Homofermentative, Flavor contribution
P ac	Pediococcus acidilactiti	Thermophilic, Homofermentative, Flavor contribution
PAB	Propionibacterium	Thermophilic, Heterofermentative, High gas production

A trial is all that it takes to get started

If you would like to experience what our cheese teams can do for you, we can arrange a trial.

When you choose to work with Chr. Hansen, we offer you full support. For instance, we supply application support that is focused on optimizing process parameters, to ensure best production outcomes. You will be assigned a dedicated Application Manager to help you onsite.

Whether you are already a customer or thinking about becoming one, providing us with just a few pieces of information about your current operations will enable us to identify how we can help you maximize value and secure leadership through our fully fledged solutions and competencies. Out teams of dairy experts is available to meet at your request.

With Chr. Hansen you get a partner with a range of ingredients that offer superior value supported by best-in-class application capabilities.

Every year, our customers engage in more than 1,000 development projects with us. Our customers have access to individually adjusted solutions. To support them we have located our application centres close to them. These 19 application centres are placed around the wolrd and are complimenting our 3 major development centres in Denmark, France and USA.

In total we spend around 7% of turnover on R&D. 14% of our employees work in R&D. We engage in +300 scientific partnerships with universities, research institutions, PhD students, etc. every year.

We are represented in +30 international scientific associations, advisory boards, etc. We have written over 125 publications in scientific journals and text books since 1989. We often serve as refereres on scientific articles, examiners on PhD committees and speakers at scientific conferences.





Chr. Hansen Experts for the dairy industry

Chr. Hansen believes in improving the quality of food and health. We believe the best results are achieved when working closely with you.

Our experienced application and industry specialists provide you with the knowledge, inspiration, support and customized solutions you need to be successful.

Contact your local Chr. Hansen representative to learn more about how we can work together to find the perfect solution for you.

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Market insight sources: 1= Mintel GNPD 2017 – 2020, 2= Chr. Hansen market insights 2020, 3=Euromonitor 2017 – 2020, 4= Chr. Hansen consumer study 2016

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