Dairy
Alternatives
Solutions
for success

Europe

Delightful with purpose





We are your

co-creation partner

for success through ...





Dedicated category expertise

Rely on our **global category** team, with **application expertise** and **market-driven insights**, to help you with solutions rooted in customer and consumer needs.



Broad portfolio of solutions

With Cargill's broad, **industry leading portfolio**, we are uniquely designed to provide solutions for **enticing taste and texture with improved nutritional value** to delight consumers.



Innovating to new heights

Our advanced R&D capabilities and innovative ecosystem anticipate and scale up new technologies for us to co-create your next delighting, "better for me" winning dairy alternatives together.



Differentiating through sustainability

Like you, we are committed to creating new solutions that will **feed the world more safely, responsibly and sustainably**, helping our customers to differentiate with sustainability.



Anchored by connections

With Cargill's global presence, we can offer a powerful supply chain position and strategic partnerships to harness reliable sourcing at scale in favor of your business goals.

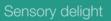






Cargill's solution toolbox will overcome your consumers' purchase hurdles to unlock growth opportunities







Nutrition and health



Sustainable solutions



Consumer top 3 reasons to buy plant-based alternatives*

- Healthier
- Brings variety to my diet
- Better for the environment

Consumer top 3 reasons NOT to buy plant-based alternatives*

- Price/value for money
- Taste and texture
- Health concerns, poor nutritional value/ ingredient quality

*Source: Innova Trends Survey 2024-Global

We can help you find solutions for:

Plant based alternatives to:

- ☑ Butter
- ☑ Cheese
- ✓ Cream
- ☑ Dairy drink

Plant based:

- Creamer
- Dessert
- ✓ Ice cream
- ✓ Spread





Ingredients in this document:

Plant proteins	→
Texturizers & emulsifiers	→
Oils & fats	→
Sweeteners	→
Cocoa and chocolate	→
Fibers	→
Functional systems	→



Plant proteins

In food, proteins are an important nutritional source supplying the body with essential amino acids that it cannot synthesize on its own. Beyond nutrition, these affordable, plant-sourced proteins provide functional benefits makes them easy to incorporate into a variety of food and beverage products. We can help food & beverage manufacturers match protein choices to brand goals, resulting in a new generation of products that meet the diverse needs and desires of today's more discerning consumer.

Product Type	Features & Benefits	Applications
Pea Protein Isolates & Hydrolysates Puris™ Pea*, RadiPure®	Min. 80% protein contentGreat functionalitySuperior taste profiles	Plant-based alternative to yogurts, cheeses, creams plant-based flavored and cocoa drinks, ice cream
Wheat Protein Hydrolyzed wheat protein Prowliz®	 Good source of energy (4 kcal/g) Highly digestible Robust protein content (Protein (Nx5.7) on dry basis: 76.5% min.) Low viscosity Good solubility 	



Texture is a vital part of product delivery as it determines how we experience a product: its flavor, appearance, texture, and mouthfeel. At Cargill, we couple our texture and emulsification solutions with our in-depth application and technical expertise, to address your most challenging formulation needs, and to deliver the palate-pleasing textures that keeps your customers coming back for more.



Product Type	Features & Benefits	Applications
STARCH		
Functional Label-Friendly Starch: Waxy Maize, Tapioca SimPure®	Label-friendlySmooth, non-gelling texture bringing body and mouthfeelGreat cold storage stability	Plant-based alternative to yogurts and cheeses, plant-based desserts
Native Cook-Up Starch: Maize, Waxy Maize, Wheat, Tapioca C☆Gel®	 Label-friendly Good gelling Provides firm texture Prevents stickiness after grating / slicing 	Plant-based alternatives to cheeses, plant-based gelled desserts
Native Instant Starch: Maize, Waxy Maize C☆Gel® Instant C☆HiForm®	Label-friendlyViscosity in cold process	
Modified Cook-Up Starch: Maize, Waxy Maize, Tapioca C☆Tex®, C☆PolarTex®, C☆CreamTex®	 Wide range of textures Shelf-life stability Water-binding Acid, heat & shear tolerance 	Plant-based alternative to yogurts and cheeses, plant-based desserts
C☆Set®, C☆Stretch®	· Excellent gelling properties	
Modified Instant Starch: Maize, Waxy Maize, Tapioca C☆Tex® Instant, C☆PolarTex® Instant, C☆HiForm®	 Viscosity in cold process Wide range of textures Shelf-life stability Water-binding Acid, heat & shear tolerance 	Plant-based alternative to yogurts and cheeses, plant-based desserts





Product Type	Features & Benefits	Applications		
DRIED GLUCOSE & MALTODEXTRIN				
Dried glucose & Maltodextrin C☆Dry® MD, C☆Dry® Light , C☆Dry® GL, C☆NutriDry	Body, mouthfeel, bulking agentLow relative sweetnessNeutral taste	Plant-based frozen desserts, flavored and cocoa drinks, plant-based alternatives to yogurts, cheeses and creams		
PECTIN, CARRAGEENAN, XANTHAN	GUM			
Pectin UniPECTINE®	Label-friendly thickening and gelling agentStabilizes proteins in acidic conditions	Plant-based alternatives to yogurts, fermented creams, plant-based acid drinks		
Carrageenan Satiagel® , Satiagum®, Aubygel®	 Acts as a thickening and gelling agent Suspends and stabilizes fat, protein and cocoa particles Improves mouthfeel 	Plant-based desserts, soft serve ice cream mix and drinks, plant-based alternatives to cheeses		
Xanthan Gum Satiaxane®	 Thickening, suspension and stabilizing agent Can be applied effectively at very low dosage Stability in acid conditions and under heat treatment 	Plant-based desserts, plant-based alternative to cheeses		
SEAWEED POWDER	SEAWEED POWDER			
Seaweed Powder WavePure®	 Label-friendly Very limited color and flavor deviation, formulation and process versatility Helps to maintain stability Brings great body and mouthfeel 	Plant-based desserts and drinks		
LECITHIN				
Fluid Lecithin Soy, Sunflower, Organic Soy Topcithin®, Leciprime®, Metarin®	Label-friendly emulsifier Stabilizes emulsions and foams Reduces surface tension Non-GMO* and GMO available	Plant-based drinks and plant-based alternatives to cheeses		
Deoiled Lecithin Soy, Sunflower and Rapeseed Metarin®, Emulpur®, Emultop®	 Not a major allergen Available in different quality grades (Organic, FQ-MaxX infant, FQ-MaxX, Premium, Standard) 			

^{*}There is no single definition of 'non-GMO'. Contact Cargill for source and processing information.



Vegetable oils & fats are essential in the creation of plant-based dairy alternatives that deliver on sensory appeal. Finding the optimal mix is key to enabling an optimal texture and organoleptic properties, and an improved nutritional profile. Our oils & fats portfolio for plant-based dairy alternatives is in line with key trends around health, sustainability, label-friendliness, without compromising on sensorial properties that consumers expect.



Product Type	Features & Benefits	Applications
Liquid Sunflower, Rapeseed, Linseed, Corn, Soy	 Low in saturated and high in mono- and polyunsaturated fatty acids Bring excellent sensorial properties Solutions for various nutritional profile 	Plant-based drinks and desserts, plant- based alternative to creams
Lauric Coconut, Palm kernel	 Fully hydrogenated available Ensure high oxidative stability for long shelf life Bring excellent sensorial properties and flavor release For extra white colour experience 	Plant based alternative to cheeses, creams, plant-based desserts, flavored and cocoa drinks, ice cream
Fats Palm-based solutions Fat-based milk powders	 Provide excellent structural properties Deliver the desired texture and mouthfeel Ensure high oxidative stability for long shelf life 	
Blends Palm alternatives based on cocoa butter and/or liquid oils	 Provide excellent structural properties Achieve desired texture and mouthfeel Reduced saturated fatty acids 	





Sweeteners

Cargill offers one of the broadest sweetness portfolios, ranging from full to no calorie options, to offer choice to customers and consumers. Whether you're creating an entirely new product or formulating for balanced nutrition, Cargill's broad range of nature-derived sweetness solutions can help you for sweet success.



Product Type	Features & Benefits	Applications	
HIGH INTENSITY SV	NEETENERS ¹ (0 kcal/g, Sugar and calorie reduction, Sweetness adjustment)		
Steviol glycosides	s from stevia		
Truvia®	 High Purity Reb A Cost-effective sugar reduction up to 3% SEV Clean, sweet taste	Plant-based frozen, neutral and fermented desserts, flavored and	
ViaTech®	 Proprietary, synergistic blends of Steviol Glycosides designed for optimal taste and sweetness Sugar reduction up to 6% SEV Reduces bitterness and licorice off-notes 	cocoa drinks	
Steviol glycosides	from fermentation		
EverSweet®2	 Advanced fermentation techniques bring to life stevia's sweetest elements – steviol glycosides Reb M and Reb D Sugar reduction up to 8% SEV, with further reduction possible in combination with flavor modulators or other flavor enhancers like erythritol 	Plant-based alternative to fruit based yogurt and drinks	
LOW/NO-calorie sw	reeteners ¹ (2.4 kcal/g- 0 kcal/g, Bulk sweeteners, Sugar and calorie reduction, Tooth-friendly	y)	
Maltitol Maltidex®	Similar sweetness, cooling effect and behavior to sucroseBoosts fruity flavors	Plant-based frozen, neutral and fermented desserts, flavored and cocoa drinks	
Sorbitol C☆Sorbidex®	Milder relative sweetnessCost-effective		
Erythritol Zerose®	 Sweetness and taste profile close to sucrose Synergistic with high-intensity sweeteners, masks off-flavors Adds smoothness and body Zero calories Good digestive tolerance 	_	
FULL-CALORIE SW	EETENERS (4 kcal/g, Bulk sweeteners)		
Glucose syrups C☆Sweet®	 Low to moderate relative sweetness Medium to high viscosity, body and mouthfeel Helps to adjust sugar recrystallization 	Plant-based frozen desserts	
Glucose- fructose syrup C☆TruSweet®	 Moderate to high relative sweetness Cost-effective sugar replacement Controlled browning & freezing point depression 		
Fructose syrup C☆TruSweet® 01795	 High relative sweetness enabling up to 30% sugar and calorie reduction, and more in combination with high intensity sweeteners Enhances freshness and boosts fruity flavors 	_	
Dextrose C☆Dex®	 Higher relative sweetness, typical sweet taste Flavor enhancement Quick energy release Good solubility Monohydrate or anhydrous powder, variety of particle size distributions 		





Cocoa & chocolate

From bean to bar, Cargill's global portfolio of high quality cocoa and chocolate ingredients can help you create delicious plant-based dairy alternative applications.



Product Type	Features & Benefits	Applications
CHOCOLATE		
Standard Milk, dark, white	 Liquid & solid solutions Capability to produce chocolate recipes that comply with vegan certification Available with sustainable certification 	Plant-based desserts, drinks and ice cream
Caramel Selection	 White chocolate with caramelized ingredients Label-friendly- flavored with natural caramelized ingredients Four color & flavor profiles 	
Organic	 Organic claim chocolate Sourced from organic origins across the globe to limit local influences on supply stability Blended from different origins to ensure consistent flavor profiles 	
ExtraVeganZa Vegan chocolate decorations & inclusions	 Sensorily outstanding vegan chocolate range with lighter color profile and vegan claim Based on sunflower syrup or rice syrup Available from 'suitable for vegan' to 'vegan with no detectable levels of dairy' * 	
COCOA POWDER		
Gerkens [®] cocoa	 A broad range of high-quality cocoa powders suitable for a variety of applications Two new, 30% sugar reduced cocoa powders, in a natural way (without adding any sweeteners or artificial ingredients) Available with a sustainable certification Available in organic 	
ExtraVeganZa	Two specialty cocoa powders to enhance the sensory appeal of plant-based alternatives to dairy drinks	
COATINGS AND FILL	INGS	
Customized plant-based compounds	 Made with plant-based ingredients for recipes that are also suitable for vegans No limit on dairy traces is offered* Dedicated 'No nut' production line Available with a sustainable certification 	

^{*} Produced on our standard lines, dairy traces without max limitations.



Fibers

As consumers embrace a more proactive and preventative approach towards health, their attitudes are increasingly reflected in their food and beverage choices hence fiber is rising in popularity. Cargills fiber are fully in line with today's trends towards sugar and calorie reduction, fiber enrichment, and label-friendliness.

Product Type Features & Benefits Applications Label-friendly Enables ''High in fiber" ''Source of fiber" claims Enables minimum 30% sugar reduction Calorie reduction Nutri-Score improvement Applications Plant-based drinks, desserts and ice cream, plant-based alternatives to yogurts, cheeses



INFUSE by Cargill™

Functional systems (1/2)

Blended ingredient solutions offer customers the ease of a solution that helps speed up their development and launch innovative products faster to market. By delivering such functional systems, Cargill can deliver on the core requirements for Dairy Alternatives. Among others, we offer functional ingredient systems under Trillisse®, Lygomme® and Flanogen® labels, that address a complex set of consumer demands, such as nutritional balance, label friendly, plant-based and other "free-from" formulation challenges

Functional systens	Features & Benefits	Applications
Lygomme® ABN 622 R Declaration: Mono & diglycerides of fatty acids (E471), Carrageenan (E407), Guar Gum (E412)	 Helps to create a stable emulsion in order to avoid creaming effect and particles sedimentation Enables sensorial smoothness improvement Easy dispersion Flexible dosages 	Plant-based alternatives to dairy drinks
Lygomme® ABN 829 Declaration: Microcrystalline cellulose (E460i), Cellulose Gum (E466), Gellan Gum (E418)	 Helps to create a stable emulsion in order to avoid creaming effect and particles sedimentation Enables sensorial smoothness improvement 	Plant-based alternatives to dairy drinks
Lygomme® ACH 633 Declaration: Modified Starch (E1450), Carrageenan (E407)	Smooth and spreadable, short and and shiny textureCheese-like eating experience	Plant-based alternatives to spreadable cheese
Lygomme® ACH 830 Declaration: Native Starch, Modified Starch (E1450), Guar Gum (E412), Carrageenan (E407)	Delivers enough heat stability to allow shape retentionDelivers optimal external crispiness and internal softness	Plant-based alternatives to halloumi cheese
Lygomme® ACH 840 Declaration: Dextrin, Xanthan Gum (E415), Guar Gum (E412)	Helps to deliver the right elasticityDelivers springiness, and increase strings when eating	Plant-based alternatives to block cheese
Lygomme® ACH 864 K Declaration: Native Starch, Modified Starch (E1450), Guar Gum (E412), Carrageenan (E407)	 Base solution to deliver meltability and stretch without melting salts, phosphates and citrates Helps to improve the texture and overall eating experience 	Plant-based alternatives to block cheese
Lygomme® ACH 875 DF Declaration: Potato Starch, Modified Starch (E1450)	 Helps to deliver a stable emulsion with meltability Helps to improve the texture and overall eating experience 	Plant-based alternatives to to block, soft and fondue cheeses
Lygomme® ACH 909 R Declaration: Modified Starch (E1422), Sodium Chloride, Agar (E406)	Delivers firm cuttable, crumbly and thick textureHelps to improve the overall eating experience	Plant-based alternatives to feta cheese



INFUSE by Cargill™

Functional systems (2/2)

Functional systens

Tuiliana® AVC OCCO

Blended ingredient solutions offer customers the ease of a solution that helps speed up their development and launch innovative products faster to market. By delivering such functional systems, Cargill can deliver on the core requirements for Dairy Alternatives. Among others, we offer functional ingredient systems under Trillisse®, Lygomme® and Flanogen® labels, that address a complex set of consumer demands, such as nutritional balance, label friendly, plant-based and other "free-from" formulation challenges

 Label-friendly ingredients with positive consumer perception Helps to deliver indulgent mouthfeel and great overall texture Helps to improve smoothness and shiny appearance Limits syneresis during shelf life Easy to use in plant-based formulations, with no process adjustments needed 	Plant-based alternatives to yogurt
 Helps to improve smoothness and shiny appearance Limits syneresis during shelf life Indulgent, thick and creamy texture Suited for various UHT processes Addition before fermentation 	Plant-based alternatives to yogurt
 Helps to improve smoothness and shiny appearance Limits syneresis during shelf life Indulgent, thick and creamy texture improved process resistance Addition before fermentation 	Plant-based alternatives to yogurt
 Label-friendly Helps to bind the water and brings viscosity Develops indulgent sensory mouthfeel and shininess Avoids syneresis during shelf life 	Plant-based alternatives to yogurt, plant-based dessert
 Helps to improves smoothness and shiny appearance Limits syneresis during shelf life Helps to deliver indulgent mouthfeel Process resistant 	Plant-based desserts
 Suitable for various textures from pourable custard to thick slightly gelified dessert creams Indulgent creamy mouthfeel 	Plant-based creamy desserts
Delivers a demoldable and gelified textureIndulgent spoonable texture, with a creamy consistency	Plant-based hot-filled desserts
	 Helps to deliver indulgent mouthfeel and great overall texture Helps to improve smoothness and shiny appearance Limits syneresis during shelf life Easy to use in plant-based formulations, with no process adjustments needed Helps to improve smoothness and shiny appearance Limits syneresis during shelf life Indulgent, thick and creamy texture Suited for various UHT processes Addition before fermentation Helps to improve smoothness and shiny appearance Limits syneresis during shelf life Indulgent, thick and creamy texture improved process resistance Addition before fermentation Label-friendly Helps to bind the water and brings viscosity Develops indulgent sensory mouthfeel and shininess Avoids syneresis during shelf life Helps to improves smoothness and shiny appearance Limits syneresis during shelf life Helps to deliver indulgent mouthfeel Process resistant Suitable for various textures from pourable custard to thick slightly gelified dessert creams Indulgent creamy mouthfeel Delivers a demoldable and gelified texture

Features & Benefits





Applications





Your co-creation partner for success

⊗ Expertise

⊘ Portfolio

Unnovation

Sustainability

Meat & Dairy Alternatives





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