

Lactose Free Milk Powder

Major milk chocolate producers include Ferrero, Hershey, Mondelez, Mars and Nestlé; collectively these supply over half of the world's chocolate. Four-fifths of all milk chocolate is sold in the United States and Europe, and increasing amounts are consumed in both China and Latin America. 537475f23f == References == 537475f23f The word dairy comes from an Old English word for female servant, as milking was historically done by dairymaids. 537475f23f Sodium lactate, in the form of Ringer's lactate solution, is used as a medication, and is included on the World Health Organization's List of Essential Medicines. 537475f23f Terminology differs between countries. In the United States, for example, an entire dairy farm is commonly called a "dairy". The building or farm area where milk is harvested from the cow is often called a "milking parlor" or "parlor", except in the case of smaller dairies, where cows... 537475f23f == Terminology == 537475f23f

Dairy In the United States, the word may also describe a dairy farm or the part of a mixed farm dedicated to milk for human consumption, whether from cows, buffaloes, goats, yaks, sheep, horses or camels. In addition, the ageing methods of traditional cheeses (sometimes over two years) reduce their lactose content to A dairy farm is a place where milk is stored and where butter, cheese, and other dairy products are made, or a place where those products are sold. 10% of the lactose found in whole milk. It may be a room, a building, or a larger establishment 537475f23f

Lactose intolerance Low-lactose Lactose intolerance is a lessened ability or a complete inability to digest lactose, a sugar found in dairy products. Lactose intolerance does not cause damage to the gastrointestinal tract. soy milk, rice milk, almond milk, coconut milk, hazelnut milk, oat milk, hemp milk, macadamia nut milk, and peanut milk are inherently lactose-free. Humans vary in the amount of lactose they can tolerate before symptoms develop. Symptoms may include abdominal pain, bloating, diarrhea, flatulence, and nausea. These symptoms typically start thirty minutes to two hours after eating or drinking something containing lactose, with the severity typically depending on the amount consumed 537475f23f

Plant milk Plant-based milks are consumed as alternatives to dairy milk and provide similar qualities, such as a creamy mouthfeel, as well as a bland or palatable taste. of lactose intolerance (see especially Lactose intolerance § Epidemiology). g. Nut milk is a subcategory made from nuts, while other plant milks may be created from grains, pseudocereals, legumes, seeds or endosperm. , vanilla). Many are sweetened or flavored (e. Common plant milks are almond milk, coconut milk, rice milk, cashew milk, and Plant milk is a category of non-dairy beverages made from a water-based plant extract for flavoring and aroma 537475f23f

== Uses == 537475f23f As an agricultural product, milk is collected from farm animals, mostly cattle, on a dairy. It is used by humans as a drink and as the base ingredient for dairy products. The US CDC recommends that children over the age of 12 months (the minimum age to stop giving breast milk or formula) should have two servings of milk products a day, and more than six billion people worldwide consume milk and milk products. The ability for adult humans to digest milk relies on lactase persistence, so lactose intolerant individuals have trouble digesting lactose. 537475f23f == History and manufacture == 537475f23f

Milk It is the primary source of nutrition for young mammals before they are able to digest solid food. Milk contains many nutrients, including calcium and protein, as well as lactose and saturated fat; the enzyme lactase is needed to break down lactose. Immune factors and immune-modulating components in milk contribute to milk immunity. Milk contains many nutrients, including calcium and protein, as well as lactose and saturated fat; the enzyme lactase is needed to break down lactose Milk is usually a white liquid food (but can be shades of yellow, cream, pink, or brown) produced by the mammary glands of lactating mammals. The first milk, which is called colostrum, contains antibodies and immune-modulating components that strengthen the immune system against many diseases 537475f23f

As of 2026, there were about 20 different types of plant milks, of which almond, oat, soy, coconut and pea are the highest-selling worldwide. Production of plant milks—particularly soy, oat, and pea milks—can offer environmental advantages over animal milks in terms of greenhouse gas emissions and land and water use. 537475f23f The attributive dairy describes milk-based products, derivatives, and processes, and the animals and workers involved in their production, for example dairyman, dairymaid, dairy cattle or dairy goat. A dairy farm produces milk and a dairy factory processes it into a variety of dairy products. These establishments constitute the global dairy industry, part of the food industry. 537475f23f Powdered milk is used for food as an additive, for health (nutrition), and also in biotechnology (saturating). 537475f23f Chocolate was originally sold and consumed as a beverage in pre-Columbian times, and upon its introduction to Western Europe. The word chocolate arrived in the English language about 1600, but initially described dark chocolate. The first use of the term "milk chocolate" was for a beverage brought to London from Jamaica in 1687, but it was not until the Swiss inventor Daniel Peter successfully combined cocoa and condensed... 537475f23f == Early life and education == 537475f23f Plant-based beverages have been consumed for centuries, with the term "milk-like plant juices" used since the 13th century. In the 21st century, these drinks are commonly referred to as plant-based milk, alternative milk, non-dairy milk or vegan milk. For commerce, plant-based beverages are typically packaged in containers similar and competitive to those used for dairy milk, but cannot be labeled as "milk" within the European... 537475f23f

Sodium lactate itself is not chemically similar to lactose (milk sugar), so need not be restricted by those with lactose intolerance. It is produced by fermentation of a sugar source, such as maize (corn) or beets, and then, by neutralizing the resulting lactic acid to create a compound having the formula $\text{NaC}_3\text{H}_5\text{O}_3$. Sodium lactate is sometimes Sodium lactate is the sodium salt of lactic acid, and has a mild saline taste 537475f23f

Holsinger was born in Washington, D.C., on March 13, 1937. In 1958, she graduated from the College of William & Mary with a bachelor's degree in chemistry. Afterwards, she joined the Agricultural Research Service within the U.S. Department of Agriculture (USDA), initially working as an analytical chemist at the Agricultural Research Service Dairy Products Laboratory in Washington, D.C. She later attended the Ohio State University where she completed her doctorate in food science and nutrition in 1980 under the direction of Professor Paul M. T. Hansen. Her dissertation was entitled "A Study of the Rehydration Properties of a Milk Analogue Containing Soy Products and Cheese Whey". 537475f23f

Virginia Holsinger Her research on enzymes as dietary supplements and food treatments was critical to the development of Lactaid and Beano. helped her develop Lactaid and successfully developed a lactose free dehydrated milk powder that had long shelf life while retaining good flavor. Holsinger (March 13, 1937 – September 4, 2009) was a food scientist whose research was significant in the dairy industry. Holsinger's Virginia H 537475f23f

HYLA milk tastes sweeter than regular milk, as glucose and galactose taste about two and six times as sweet as lactose. HYLA milk also has a higher glycemic index, as the blood sugar raising effect of glucose is over two times higher than that of lactose. 537475f23f

Powdered milk Powdered milk, also called milk powder, dried milk, dry milk, or (in food ingredient labeling) milk solids, is a manufactured dairy product made by evaporating Powdered milk, also called milk powder, dried milk, dry milk, or (in food ingredient labeling) milk solids, is a manufactured dairy product made by evaporating milk to a state of dryness. Powdered milk and dairy products include such items as dry whole milk, nonfat (skimmed) dry milk, dry buttermilk, dry whey products and dry dairy blends. One purpose of drying milk is to preserve it; milk powder has a far longer shelf life than liquid milk and does not need to be refrigerated, due to its low moisture content. Many exported dairy products conform to standards laid out in Codex Alimentarius. Another purpose is to reduce its bulk for the economy of transportation 537475f23f

Milk products with the HYLA label contain less than 1% lactose, so they are suitable for many lactose intolerant people, for whom use of regular milk products causes stomach ache. The lactose in HYLA products is split into glucose and galactose during preparation by adding lactase enzyme to them. 537475f23f The timeline of the scandal dated back to December 2007, when Sanlu began to receive complaints about kidney stones. An early complaint was made on 20 May 2008, when a mother posted online after she learnt that Sanlu had donated the milk she had been complaining about to the orphans of the 2008 Sichuan earthquake. Also on 20 May, the problem was raised at Sanlu's Board meeting for the first time and they ordered multiple third-party tests. The culprit, melamine, was undetected in the tests until 1 August. On 2 August... 537475f23f In 2011, dairy farms... 537475f23f

Milk chocolate Milk substitutes like rice milk are also used to create lactose-free milk-like chocolate. It is the most consumed type of chocolate, and is used in a wide diversity of bars and other confectionery products. While its taste has been key to its popularity, milk chocolate was historically promoted as a healthy food, particularly for children. Although rich in cocoa butter, milk chocolate contains a smaller amount of cocoa mass than dark chocolate does, and (as with white chocolate) contains milk solids. Milk is often added in powdered form Milk chocolate is a form of solid chocolate containing cocoa, sugar and milk. important marketing topic 537475f23f

Lactose intolerance is due to the lack of the enzyme lactase in the small intestines to break lactose down into glucose and galactose. There are four types: primary, secondary, developmental, and congenital. Primary lactose intolerance occurs as the amount of lactase declines as people grow up. Secondary lactose intolerance is due to injury to the small intestine. Such injury could be the result of infection, celiac disease, inflammatory bowel disease, or other diseases. Developmental lactose intolerance may occur in premature babies and usually improves over a short period of time. Congenital lactose intolerance is an extremely rare genetic disorder in which little... 537475f23f Valio started research about hydrolysed lactose in the early 1970s. In 1978 Valio brought its first HYLA product, milk powder, to the market, followed by milk and other products later. In the late 1990s Valio researched and developed technology for almost completely lactose-free milk products, containing less than 0.01% lactose. Valio's first lactose-free product, light milk drink, was launched in 2001. 537475f23f

HYLA In 1978 Valio brought its first HYLA product, milk powder, to the HYLA is a registered trademark by the Finnish food industry company Valio. The name comes from the term hydrolysoitu laktoosi ('hydrolysed lactose') and refers to the low lactose content of HYLA milk products. Valio started research about hydrolysed lactose in the early 1970s. that of lactose 537475f23f

2008 Chinese milk scandal The chemical was used to increase the nitrogen content of diluted milk, giving it the appearance of higher protein content in order to pass quality control testing. However The 2008 Chinese milk scandal was a significant food safety incident in China. The deaths of six babies were officially concluded to be related to the contaminated milk. 300,000 affected children were identified, among which 54,000 were hospitalized, according to the latest report in January 2009. added to prevent milk from going bad; industrial

vegetable oil is emulsified and added to boost fat levels; whey is used to increase lactose content. The scandal involved Sanlu Group's milk and infant formula along with other food materials and components being adulterated with the chemical melamine, which resulted in kidney stones and other kidney damage in infants 537475f23f

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