





# **HIGH-PROTEIN SOLUTION**

- · Protein enrichment of beverages has become a global trend over the recent years.4
- · Consumers believe that protein in drinks promotes satiety and enables better control of eating habits.<sup>5</sup>
- · Nutrilac® for high protein beverages enables a low, drinkable viscosity, great mouthfeel and superior heat stability even at high protein levels.
- · Lacprodan® is soluble in clear drinks enabling a high protein content
- High in protein is a potential claim when the protein energy percentage equals or exceeds 20% of the total calories.<sup>6</sup>



# MILK-BASED BEVERAGE

- Add Nutrilac® protein solutions for milk-based beverages and get high-protein drinks with milky taste and smooth mouthfeel.
- · Nutrilac® simulates fat which results in creaminess at low fat levels



## **CLEAR DRINK**

- · Drinks with protein are taking hold of the sports nutrition market even in the mainstream consumer segment.<sup>7</sup>
- · Proteins are proven to enhance muscle recovery and boost exercise performance.8
- With Lacprodan® you can increase the protein content of your beverages without dry mouthfeel in your product while keeping a fresh and clear drink.



# WHEY PROTEIN9

- $\cdot$  Whey proteins are highly satiating, easily digestible and rapidly absorbed.
- · Whey proteins are of high nutritional quality and provide all the essential amino acids (EAA) and contain an especially high proportion of the branched chain amino acids (BCAA) documented to effectively stimulate muscle protein synthesis.
- · We can offer you specific ingredients solutions that allow you to promote 100% whey protein and whey protein hydrolysate beverage solutions.



# **CALCIUM ENRICHMENT**

- The growing senior segment is getting older and they want to live an active and healthy life with nutritious and health beneficial products.<sup>10</sup>
- · Enrich your beverages with calcium to provide products that benefit seniors' bone health.
- Using our calcium solution, Capolac®, will enable you to raise the level of calcium in your beverage, while claiming 'calcium enrichment' and 'bone health' on product packaging.





There are many ways in which you can benefit from using our Nutrilac<sup>®</sup> and Lacprodan<sup>®</sup> solutions specifically developed for beverage applications. In the table below, the benefits of our solutions are listed horisontally and the key applications vertically.

	SOLUTIONS	High protein	Calcium enrichment	Whey protein	Clear drink	Milk-based
WEIGHT MANAGEMENT	Protein water	V		V	V	
	Meal supplement	V	$\bigvee$	V		V
	Satiety drink	V	$\bigvee$	V		
	Milky drink	V				V
EASY SNACKING	Smoothie	V	$\checkmark$	V		
	Chilled coffee	V	$\bigvee$	V		$=$ $\checkmark$
SPORT	Recovery	V	$\checkmark$	V		$= \sqrt{-}$
	Improved performance	V	$\sqrt{}$	V	V	
	Muscle building	V		V		
	Muscle toning	V		V	V	
HEALTHY AGEING	Active living	V		V		$\mathbb{Z}_{\mathbb{Z}}$
	Mental fitness	V				$= \sqrt{-}$
CHILDREN	Kids smoothie	V		V		
	Optimised learning	V		V		



: Benefit is present in solution

: Benefit is applicable in solution

Fuel the next generation with healthy choices<sup>11</sup>

Children around the world are getting more obese, partly because of easily accessible, unhealthy foods. As children tend to snack two to three times a day, it is important that these snacks are healthy.

Parents are increasingly looking for snacks containing beneficial nutrients such as protein and calcium, whilst discarding high sugar, high fat snacks. Snacks should be convenient and easy to consume whether the kids are outside playing or in the car on a family trip.

Popular healthy snacks are calcium enriched dairy products, such as high protein smoothies with high levels of nutrients that can promote the feeling of satiety.<sup>12</sup>





Kids smoothie

Creamy and delicious smoothie for kids



**Healthy opportunities** for weight manageme

> 54% of women believe that they are overweight<sup>14</sup>

Around 48% of all women monitor what they eat to manage their weight<sup>15</sup>

The health and wellness trend is spreading across many food and beverage categories. With the high levels of overweight and obesity, along with the disease risks associated with this, consumers are striving to lead healthier lifestyles.<sup>16</sup>

Women, especially, are focused on weight management and healthy eating, meaning they shop for low calorie, satiating foods.<sup>17</sup>

Besides looking for healthier products, ingredient transparency on labels is also essential for consumers when choosing the right weight management product. Consumers increasingly demand more natural low calorie products that help them stay full for longer. 18





Protein drink with fresh taste and no dryness or sedimentation



## Meal supplement

Tasty and filling drink with high protein and low fat content



#### Satiety

Filling and tasty drink with high protein content to promote satiety



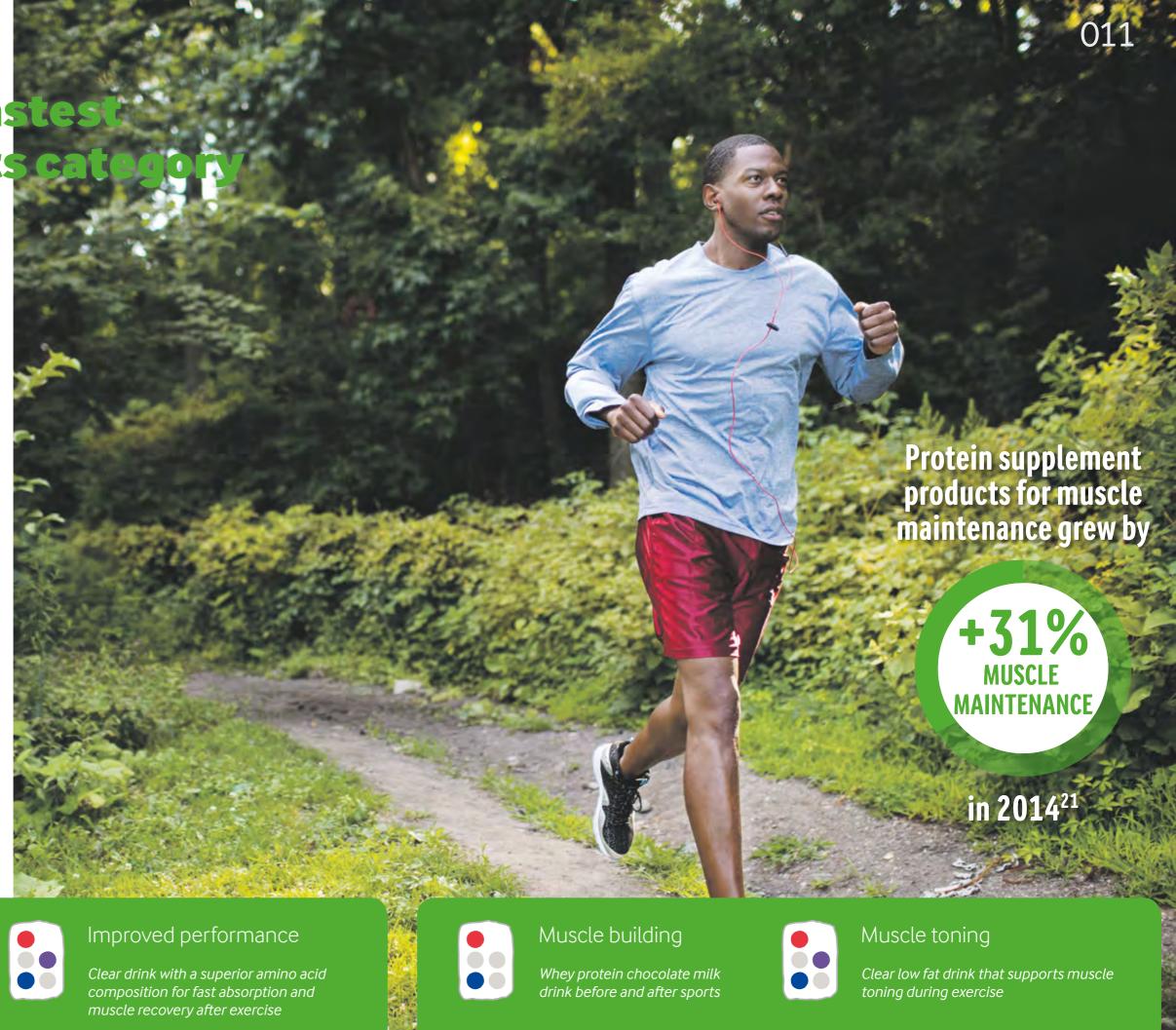
#### Milky drink

Delicious low fat, high protein drink with milky flavour

Tap into the fastes growing sports

Sports nutrition is one of the fastest growing categories within the health and wellness sector. The category's sales value grew by 13% in 2014 in the US, and is expecting a constant value growth of 8% until 2019. Protein drinks are moving towards the mainstream segment, as the tendency of focusing on the right nutrition in connection with sports is spreading.<sup>19</sup>

However, consumers do not want to compromise on taste when consuming sports drinks. These recreational athletes want high quality nutrients in convenient products that taste great.<sup>20</sup>





Recovery

Delicious high protein chocolate milk drink before or after sports

# 012 The number of products promoted with the word 'smoothie' has increased 98% from 2010 to 2014<sup>22</sup> **198%** Smoothie **1**00% High in whey protein, low fat smoothie to bring on the go 2010 2014

# **Easy** snacking

Due to busy lifestyles and less sparetime to enjoy, more consumers are morphing their meals into snacks. Trends like grabbing breakfast on the go and having lunch as a quick snack are increasing, making consumers choose easy and convenient foods to enjoy on the go. <sup>23</sup>

Combined with convenience, health is also an important factor when consumers choose what meals they want to snack on. Consumers' awareness of what constitutes healthy snacking is driving mini meals with functional benefits, creating a very inviting market for healthy snacks and beverages with natural and nutritive ingredients.<sup>24</sup>



Chilled coffee

Creamy protein-enriched coffee flavoured ice drink with great mouthfeel

# Healthy ageing

One of the fastest growing consumer segments is active seniors. These consumers are striving to work for longer and live an active and healthy life.<sup>25</sup>

Therefore, they are on the lookout for highly nutritious products that benefit their physical and mental health.<sup>26</sup>

In particular, seniors are looking for products to support muscle health and help them stay active for longer. This means that nutritious products rich in proteins and minerals are in high demand. Whey protein is particularly beneficial for this group, as the unrivalled amino acid composition promotes muscle maintenance.<sup>27</sup>

Especially protein enriched products are high in demand when considering seniors' consumption habits.<sup>28</sup>





Active living

Creamy drink based on whey proteins for muscle and bone health



#### References

- 1 Innova Market Insights (July, 2014). "Protein Shake Trends"
- Duncan Walker, for bbc.com (June, 2013). Available at: http://www.bbc.com/ news/magazine-22753620
- Future Foundation (August, 2014). "Changing lifestyles"
- 4 Innova Market Insights (2015).
- 5 Chris, Schmidt, Euromonitor, (2014). "Protein Trends Technologies"
- European Commission, Food Safety (2015). Available at: http://ec.europa.eu/food/safety/labelling\_nutrition/claims/nutrition\_claims/index\_en.htm
- Euromonitor International (2014).
- Dietary protein quality evaluation in human nutrition Report on FAO Expert Consultation 2011 and FAO Food and Nutrition Paper 92 & Schaafsma 2008, Br. J. Nutr.
- 9 Ibid.
- Mintel (2014). "Ageing Understanding the global consumer 'super' trend"
- Kid Nutrition: Ingredients for Healthy Snacking (2014). Available at: http://www.nutritionaloutlook.com/140910/Child02
- Innova Market Insights (2015). "Children (5-12 years) Trend analysis"
- Kid Nutrition: Ingredients for Healthy Snacking (2014). Available at: http://www.nutritionaloutlook.com/140910/Child02
- 14 Nielsen (2015). "Men's and women's Wellness Perceptions Can Carry Weight"
- Euromonitor (2015). "The Rising Power of the Female Consumer"
- Marketing to Moms Coalition (2011). "State of the American Mom 2011 Highlights"
- Nielsen (2015). "Men's and women's Wellness Perceptions Can Carry Weight"
- 18 Ibid.
- 19 Euromonitor International (2015). Sports nutrition in the US
- 20 Foodbusinessnews.net (2014)
- 21 Innova Market Insights (2015). "Sports Nutrition 3.0 What are the latest trends and developments"
- The World of Food Ingredients (March, 2015). "Category overlap helps to fuel soft drinks recovery"
- Ganeden Biotech (2014). "Take a Bite of the Healthy Snacks Category"
- 4 Ibid.
- 25 Strategic Nutrition for Healthy Aging Technical Paper (March, 2014)
- 26 Ibid.
- 27 Mintel, Foods Matters Live (2014). "Ageing Understanding the global consumer 'super' trend. Just who are the seniors?"
- 28 Ibid
- 29 Ibid

Individual needs, individual protein solutions

016



## **Quality** starts here

Arla Foods Ingredients is a ingredients for nutritious food of our offering.

**Arla Foods Ingredients Group P/S** Sønderhøj 10-12

Office +45 89 38 10 00 email beverage@arlafoods.com