



FrieslandCampina <sup>air</sup>  
Ingredients

MEDICAL NUTRITION

# From Nutrition to Application

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Young IFFI Event May 2026





Nice to meet you!

**We are FrieslandCampina Ingredients, your innovation and application partner in proteins and prebiotics**

**To get the most out of life, always**

Our drive is to get the right ingredients to our customers to create **highly nutritious, sustainable applications** for consumers with special dietary needs or preferences, so they can get the most out of life, always.

Our experts work with our customers and partners to jointly develop nutritious, effective and sustainable products, and to launch them faster, with a greater impact in the market.

THE INSIDE MATTERS



# Application

Demonstrates functional capabilities and the suitability of ingredients for use in end-consumer products and formats



# Why application development?

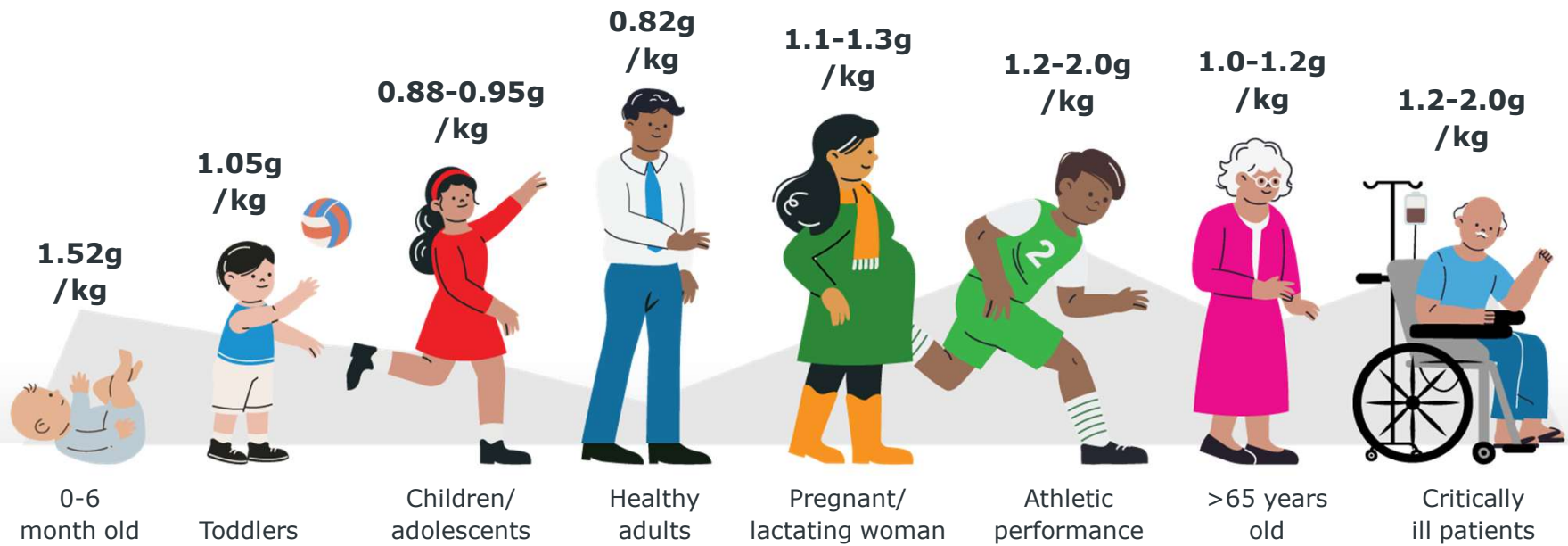


## Input for application development via various channels

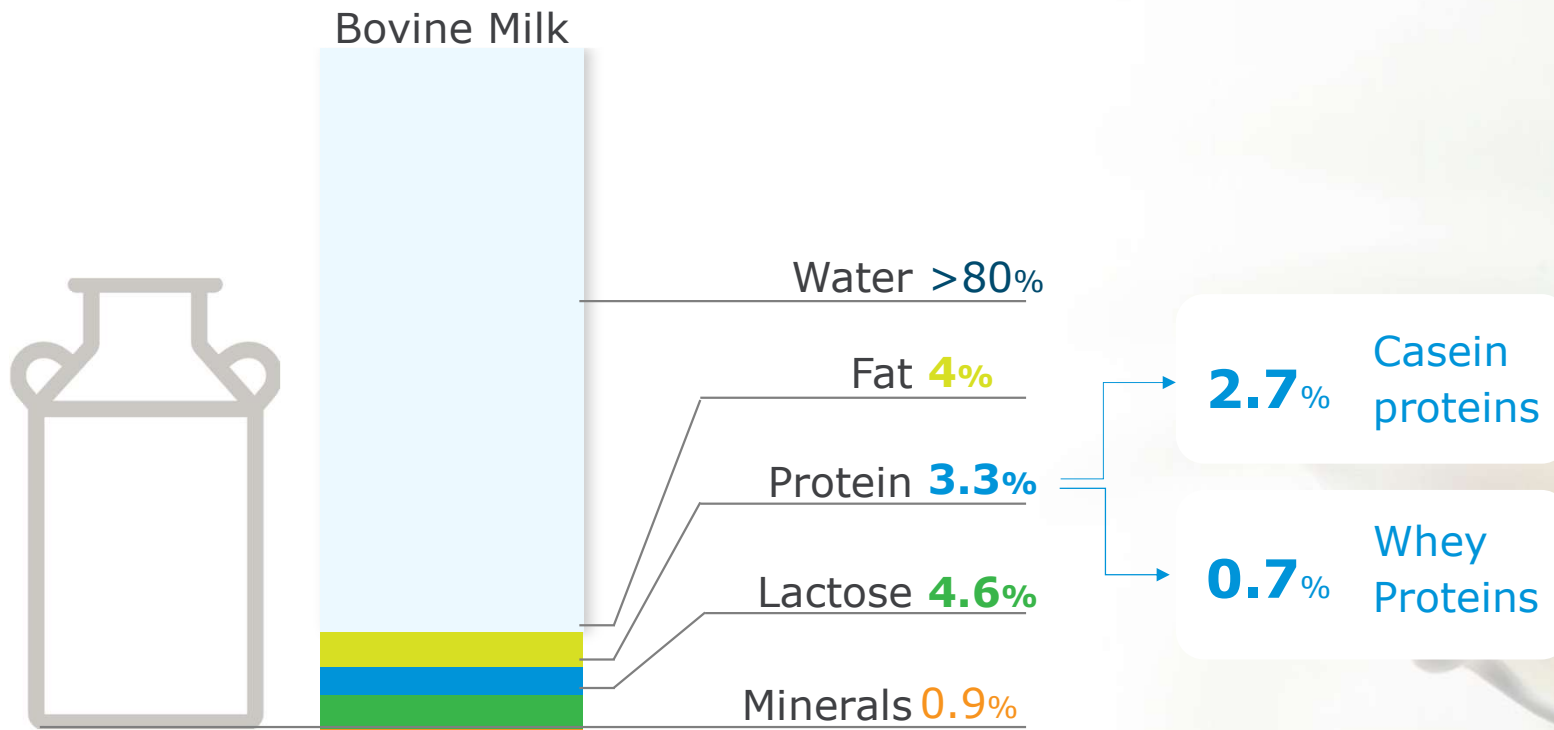


# The daily need for protein varies **during life, health status and lifestyle.**

*Amount of protein per kg of body*



## Main Proteins in milk: Casein proteins & Whey proteins



*\*Milk contains besides whole range of proteins and peptides*

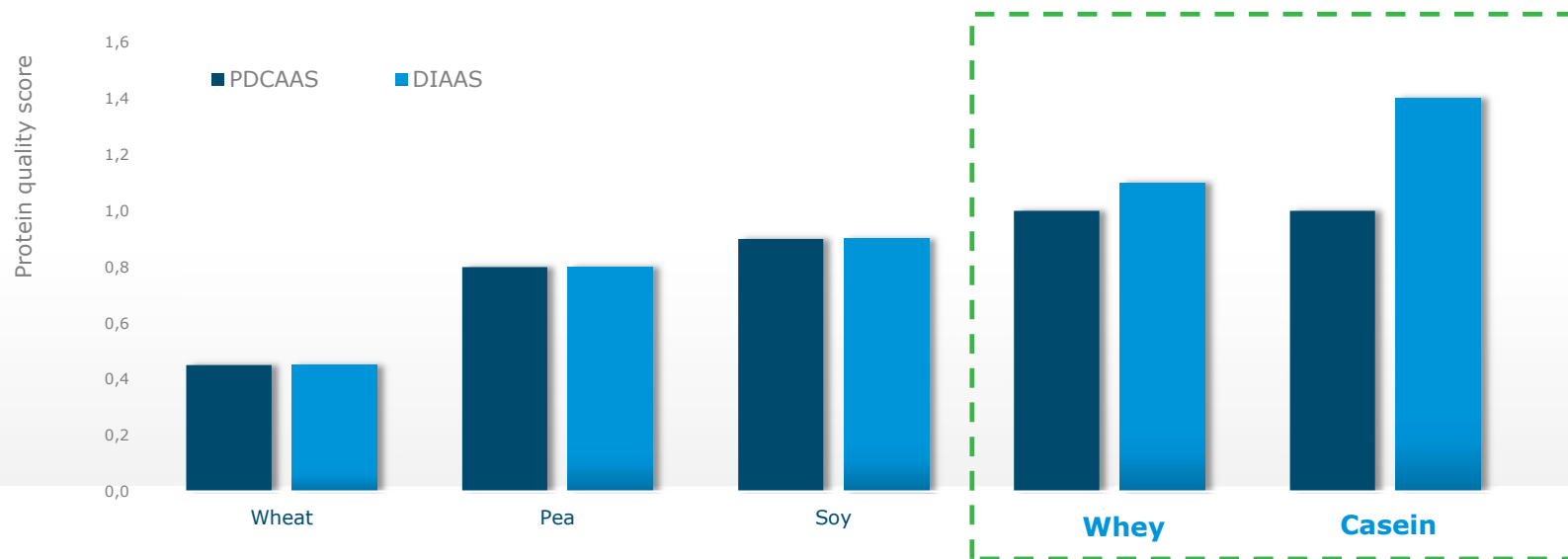


# Whey vs Casein

## Is one better than the other?

# High quality protein is critical to deliver essential amino acids in an effective way to the body

## High nutritional quality of dairy proteins



### PDCAAS

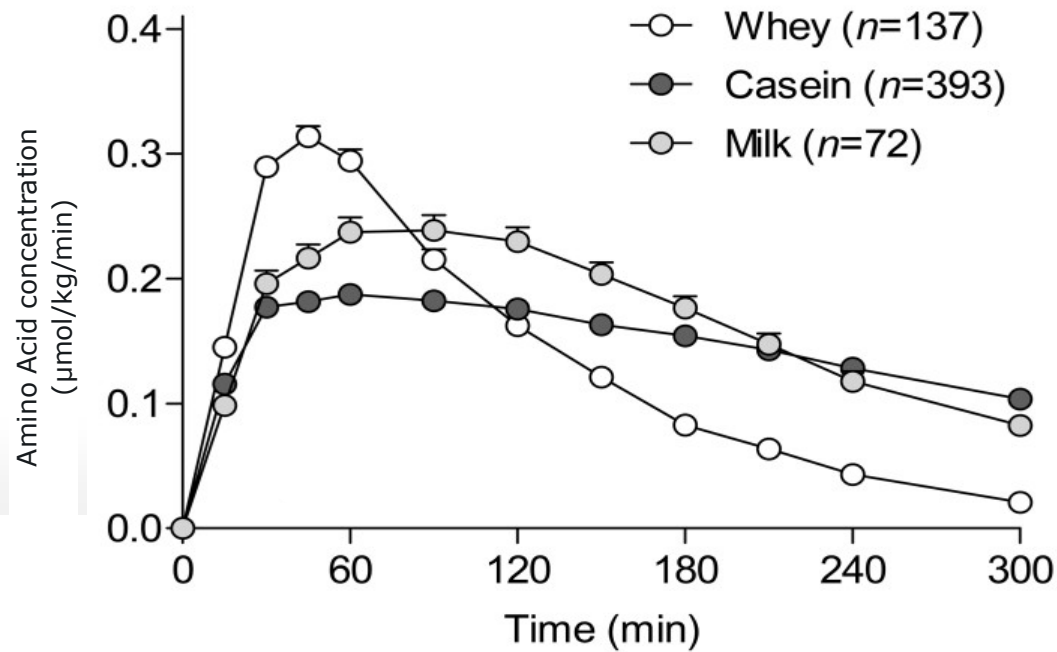
Estimate available amino acids by measuring fecal protein digestibility



### DIAAS

Estimate available amino acids by measuring amino acids end of ileum

Whey is fast, **casein** has a **more sustained** release of amino acids



## CASE: RTD with Ca caseinate

- Customers request High protein RTD:
  - 10% protein ; 20 g protein per dose
  - High nutrition protein quality
  - Support for communication
  - Support for development
  - Secured supply
- Remark: no/limited experience with High protein RTD

## CASE: RTM with Ca caseinate

- Customers request High protein RTM
  - 20 gram protein per dose
  - High nutrition protein quality; want to keep as much whey in as possible\*
  - Support for communication
  - Support for development
  - Secured supply
- Remark: no/limited experience with caseinate

\*max 20%