EU Novel Food
Reg. (EU) 2017/2470

BOVINE LACTOFERRIN · ≥ 95% PURITY

Nature's *best.*

Lactoferrine© 95 PRO

Research suggests that lactoferrin may have useful biological functions for both infants and adults, including roles in immune function and in the body's natural defences.

- Product of the European Union
- Neutral taste · Free-flowing powder





≥ 95%	≥ 97%	≤ 5%	24
lactoferrin of total protein	protein on dry matter	moisture	months of shelf life

by ND Pharma & Biotech

01 · LACTOFERRIN

A multifunctional *protein*.

Lactoferrin, also known as lactotransferrin, is a multifunctional glycoprotein of the transferrin family. Its antimicrobial activity is linked to its affinity for Fe^{3+} — which allows it to compete for free iron with iron-dependent microorganisms — and to its direct action on the outer membrane of Gram-negative bacteria.

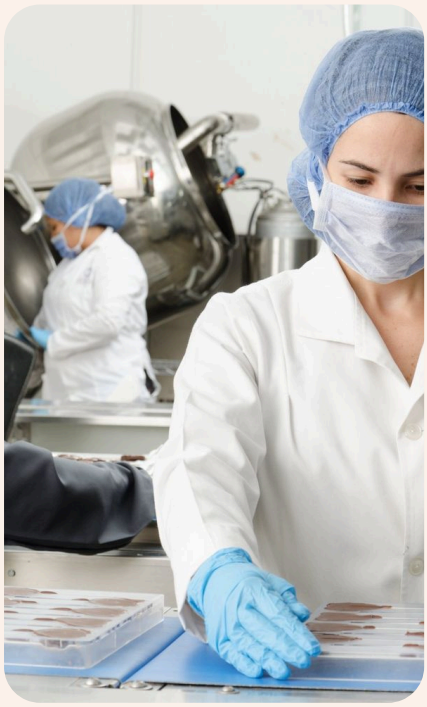
Many studies have explored its anti-infective and immunomodulatory activities and its role in a balanced intestinal ecology. Research also describes how, during antibiotic therapy, lactoferrin may increase the susceptibility of bacteria to the treatment and, in synergy with probiotics, favour the growth of beneficial strains such as *Lactobacillus* and *Bifidobacterium*, which depend less on the availability of iron.



689
amino acids in a single chain

2 Fe^{3+}
iron ions per molecule

10–30%
native iron saturation



ABOUT US

ND Pharma & *Biotech*

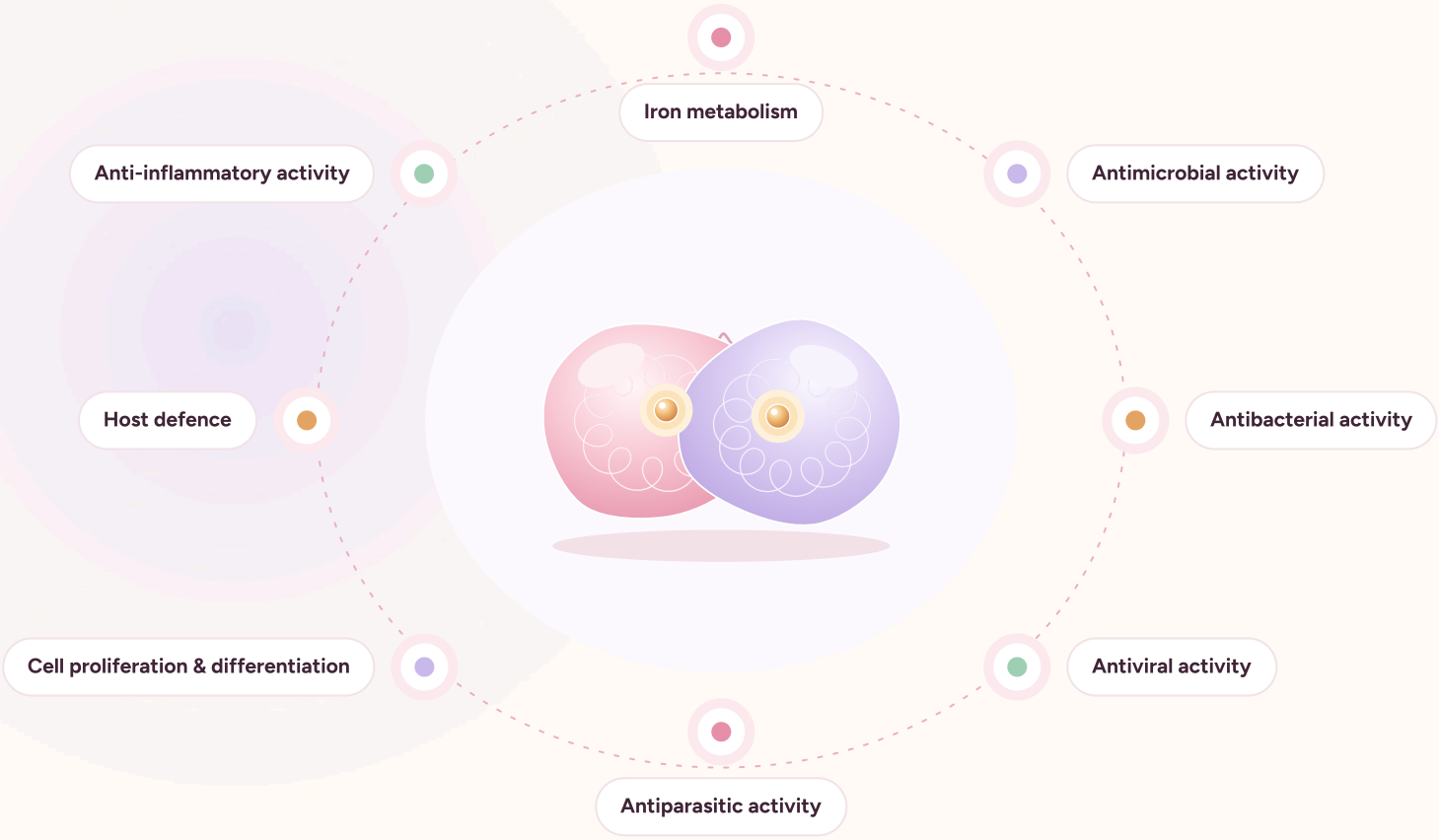
ND Pharma & Biotech Co. is a biopharmaceutical, biotechnology, alimentary and global chemical company specialised in the pharma, food and chemical industries. In the food & nutrition sector we work in food marketing and international business development. Our people are experts in food ingredients and food technology, with a strong focus on new developments and added-value products for diverse markets.

Thanks to the quality of our products and our excellence in service, our reputation has grown rapidly. We currently serve European markets and a network of distributors and agents in:

- United States
- Canada
- Latin America
- Russia
- Turkey
- UAE
- India
- Bangladesh
- South Africa

One protein, *many roles*.

Lactoferrin is one of the most studied bioactive proteins of milk. These are the activities described for it in the scientific literature.



Antimicrobial properties

01
Low natural iron saturation
Native lactoferrin carries little iron, so it keeps a strong capacity to bind it.

02
High affinity for iron
It holds iron tightly and only releases it at low pH.

03
Stimulates cell growth
It takes part in the normal growth of intestinal cells.

04
Modulates immune defences
Its interaction with immune cells is an active field of research.

Scientific information for professionals. It is not a health claim: any claim on a final product must comply with the regulation of the market where it is sold.

Pink gold, in its purest form.

PRODUCT DESCRIPTION

Lactoferrine© 95 PRO is a spray-dried protein purified directly from premium-quality fresh bovine milk and/or whey. Its high affinity for iron makes it, in laboratory studies, an inhibitor of a wide range of microorganisms that need iron to grow. Lactoferrin takes part in the normal growth of intestinal cells, acts as an antioxidant in iron-mediated oxidation reactions and has been studied as an anti-inflammatory agent. It may also play an important role in the transport of iron across the duodenal mucosa. These properties make it particularly suitable for selected food and pharmaceutical products.



≥ 95%
lactoferrin of total protein

≥ 97%
protein on dry matter

≤ 5%
moisture

24
months of shelf life

SHELF LIFE	24 months from the production date, in the original unopened packaging under the recommended storage conditions.
STORAGE	In a cool, dry place, free from toxic chemicals and odours. Ambient temperature.
STORAGE HUMIDITY	Relative humidity below 85%.
PACKAGING	5–10 kg PE bags or 25 kg industrial bags. Packaging materials are safe for contact with foodstuffs (Reg. (EC) 1935/2004 on food contact materials and Reg. (EU) 10/2011 on plastic materials and articles).
ORIGIN	Lactoferrine© 95 PRO is a product of the European Union.

Lactoferrine© 95 PRO, *in figures*.

1 COMPANY NAME	2 PRODUCT NAME	3 CAS NO.	4 FORMULA
ND Pharma & Biotech	Lactoferrine© 95 PRO	N/A	N/A

5 DESCRIPTION	Bovine lactoferrin in spray-dried powder with more than 95% pure lactoferrin of total protein, purified from premium-quality fresh milk with no denaturation.
6 APPLICATIONS	Perfectly suited to dietary supplements (tablets, capsules, softgels, gums…) and functional foods (bars, dairy products, beverages…).
7 BENEFITS	Rich in lactoferrin, a glycoprotein of the transferrin family that can bind two ferric ions. Its high affinity for iron makes it an iron-depriving agent, the basis of its antimicrobial properties. Particularly suited to the immune, gut and skin health markets.

8 SPECIFICATIONS

PARAMETER	TYPICAL VALUE	GUARANTEED VALUE	METHOD
Physical & sensorial			
Form	Free-flowing powder	—	Internal method
Colour	Light beige to light pink	—	Internal method
Taste and odour	Neutral	—	Internal method
Scorched particles	A	A	ADMI
Bulk density	0.6–0.8 g/ml	—	ISO 8967
Particle size	100 µm	—	Internal method
pH (10% solution)	5.41	5.0–6.5	Internal method
Solubility	< 0.01 ml / 50 ml	≤ 10 ml / 50 ml	ADMI
Chemical			
Total moisture	4.24%	≤ 5.0%	FIL 26A / V04-348
Total protein	95.29%	—	ISO 8968
Protein on dry matter	99%	≥ 97.0%	ISO 8968
Total fat	0.25%	—	ISO 1736
Total carbohydrate	0.01%	—	By difference
of which sugars	0.01%	—	By difference
Total ash	0.21%	≤ 1.5%	V04-208
Iron	13.2 mg / 100 g	< 35 mg / 100 g	Internal method
Lactoferrin (% of protein)	96.9%	≥ 95.0%	HPLC
Sodium (Na)	0.051%	—	ISO 8070

PARAMETER	TYPICAL VALUE	GUARANTEED VALUE	METHOD
Microbiological			
Total plate count	100 CFU/g	≤ 1,000 CFU/g	ISO 4833
Yeasts & moulds	0 CFU/g	≤ 10 CFU/g	ISO 6611
Enterobacteriaceae	Negative / g	Negative / g	ISO 8523
Coliform organisms	Negative / g	Negative / g	ISO 4831
E. coli	Negative / g	Negative / g	ISO 7251
Salmonella	Negative / 25 g	Negative / 25 g	VIDAS
Listeria monocytogenes	Negative / 25 g	Negative / 25 g	VIDAS
Coagulase-positive staphylococci	Negative / g	Negative / g	ISO 6888-3
Nutritional (per 100 g)			
Energy	383 kcal · 1,629 kJ	—	—

9 PACKAGING & STORAGE

PACKAGING
10 kg bag-in-box with double polythene bags.

BEST BEFORE
24 months when stored in a cool, dry place.



10 QUALITY ASSURANCE

ADDITIVES	Free
ALLERGENS	Milk and products thereof (including lactose)
BSE	Free
CONTAMINANTS	Comply with EC regulation
GMO	Complies with EC regulations

Typical values are indicative. The certificate of analysis of each batch is the binding document. The BSE/TSE, food-grade and melamine statements of the data sheet are given in full in the Quality statements section.

Clean by *design*.

ND Pharma & Biotech provides the following statements for Lactoferrine© 95 PRO.

BSE / TSE

Bovine spongiform encephalopathy (BSE) / transmissible spongiform encephalopathy (TSE). ND Pharma & Biotech certifies that the product is of animal origin. Even though it is derived from animal origin, the product can be considered free from TSE and BSE.

Food grade

ND Pharma & Biotech certifies that Lactoferrine© 95 PRO complies with Regulation (EC) No 852/2004 on the hygiene of foodstuffs, Regulation (EC) No 853/2004 laying down specific hygiene rules for food of animal origin, and Regulation (EC) No 178/2002 laying down the general principles and requirements of food law, establishing the European Food Safety Authority and laying down procedures in matters of food safety.

Lactoferrine© 95 PRO is manufactured in strict accordance with Commission Implementing Regulation (EU) 2017/2470 of 20 December 2017 establishing the Union list of novel foods in accordance with Regulation (EU) 2015/2283 of the European Parliament and of the Council on novel foods.

Melamine

ND Pharma & Biotech certifies that melamine is not used during the manufacturing of Lactoferrine© 95 PRO and that this molecule is therefore absent from the product, according to Reg. (EU) 594/2012.

Latex

ND Pharma & Biotech confirms, to the best of its knowledge and belief, that the natural product Lactoferrine© 95 PRO is not expected to contain latex due to its origin. Furthermore, no latex is used or added during the production process.

GMO

ND Pharma & Biotech certifies that Lactoferrine© 95 PRO does not contain and does not derive from genetically modified organisms (GMO), in accordance with Regulation (EC) 1829/2003 and Regulation (EC) 1830/2003 of the European Parliament and of the Council of 22 September 2003 concerning the traceability and labelling of GMO.

Ionising radiation

ND Pharma & Biotech certifies that Lactoferrine© 95 PRO is not treated with ionising radiation, according to Directive 1999/2/EC on the approximation of the laws of the Member States concerning foods and food ingredients treated with ionising radiation, and Directive 1999/3/EC on the establishment of a Community list of such foods and food ingredients. Only steam sterilisation is used to reduce microbiological contamination.



Safety data sheet

According to Annex II of the REACH Regulation (EC) 1907/2006 and its amendment (EU) 453/2010, a safety data sheet is only required for dangerous goods. Lactoferrine© 95 PRO is a harmless natural product and not a dangerous substance, so there is neither a legal obligation nor a need to issue one.

Nanomaterial

Lactoferrine© 95 PRO does not contain and cannot be considered an engineered nanomaterial. This raw material has not been produced using nanotechnology.

Regulations (EC) 1223/2009 and (EU) 1169/2011 define an engineered nanomaterial as any intentionally produced material that has one or more dimensions of the order of 100 nm or less, or that is composed of discrete functional parts, internally or at the surface, many of which have one or more dimensions of the order of 100 nm or less — including structures, agglomerates or aggregates which may be larger than 100 nm but retain properties characteristic of the nanoscale. These properties are (i) those related to the large specific surface area of the material, and/or (ii) specific physico-chemical properties different from those of the non-nano form of the same material.

Pesticides

The product is not treated with pesticides. In any case, it complies with Regulation (EC) 396/2005 on maximum residue levels of pesticides in food and feed of plant and animal origin, and its amendments 2006/125/EC, 149/2008/EC and 839/2008.

Residual solvents

Solvent extraction is not part of the production process of Lactoferrine© 95 PRO, so no solvent is used.

Vegetarian & vegan

Lactoferrine© 95 PRO contains products of animal origin. For this reason, it is not suitable for vegan diets.

Legislation

Lactoferrine© 95 PRO is manufactured and packaged in accordance with all current relevant EU legislation. The information stated is based on the product formulation and on the data provided by the manufacturer at the date of issue of this brochure. ND Pharma & Biotech is responsible for ensuring that this information is appropriate and complete, and will inform the customer of any change that could modify any of the statements above.

IMPORTANT LEGAL WARNING · PLEASE READ CAREFULLY

Some applications of this product may be regulated or restricted by national or international standards (e.g. for food additives, the pharmaceutical industry, etc.). The buyer and the eventual user, under their sole and entire liability, shall respect those standards, the orders of any relevant authority and all existing patents and intellectual property rights, and shall comply with the laws and regulations applicable to the product and/or to their activity. The buyer and the eventual user must independently determine the suitability of this product for any particular purpose and its manner of use. To our present knowledge, the information contained herein is accurate as of the date of this document. However, we make no warranty, express or implied, and accept no liability in connection with this information or its use. This information is for use by technically skilled persons at their own discretion and risk, and does not relate to the use of this product in combination with any other substance or process. This is not a licence under any patent or other proprietary right. The user alone must finally determine the suitability of any information or material for any contemplated use, the manner of use in compliance with the relevant legislation and whether any patents are infringed. We reserve the right to make additions, deletions or modifications to the information at any time without prior notice.

EU regulation *& specifications*.

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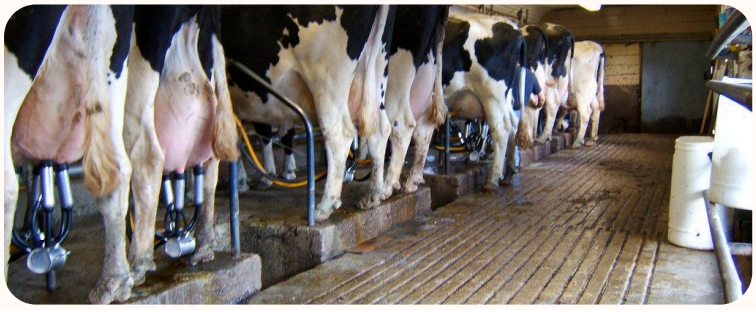
BOVINE LACTOFERRIN (BLF)

A protein that occurs naturally in cow's milk. It is an iron-binding glycoprotein of approximately 77 kDa and consists of a single polypeptide chain of 689 amino acids.

PRODUCTION PROCESS

Bovine lactoferrin is isolated from skimmed milk or cheese whey via ion exchange and subsequent ultrafiltration steps. Finally, it is dried by freeze-drying or spray-drying and the large particles are sieved out. It is a virtually odourless, light pinkish powder.

1. Skimmed milk or whey
2. Ion exchange
3. Ultrafiltration
4. Drying
5. Sieving



PHYSICO-CHEMICAL PROPERTIES OF BLF

Moisture	< 4.5%
Ash	< 1.5%
Arsenic	< 2.0 mg/kg
Iron	< 350 mg/kg
Protein	> 93%
of which bovine lactoferrin	> 95%
of which other proteins	< 5.0%
pH (2% solution, 20 °C)	5.2–7.2
Solubility (2% solution, 20 °C)	Complete

The information given corresponds to the current state of our knowledge (October 2026).

LEGAL STATEMENT

The information contained in this brochure is provided for our customers' use only, and we accept no liability to any third parties. It reflects our current knowledge and experience of the product. All products are supplied in accordance with our general terms and conditions of sale. We accept no liability for the effects of any chemical combinations or mixtures of the product carried out by customers or third parties. In using the product, our customers are reminded to comply with all relevant legal, administrative and regulatory requirements and procedures relating to its use and to the protection of the environment. Any decision to purchase, distribute or order this product implies that the buyer understands and accepts all the legal warnings and indications expressed in this document, and is legally bound to ND Pharma & Biotech, its commercial companies, subsidiaries, distributors and agents through our General Terms and Conditions.

Lactoferrine©

Let's talk about *your formula*.

For more information, samples or a quote, write to us quoting "Lactoferrine© 95 PRO".

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"It's not just how you care for them — it's how we help you do it."

ND PHARMA & BIOTECH · MAKING LIFE BETTER

ND Pharma & Biotech · a biopharma, biotech, alimentary and global chemical company with more than 318,000 product references.

ND Pharma & Biotech

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