25 Years

Colostrum® probiotic line

The largest probiotics portfolio for poultry industry

biocamp®

For 25 years, growing naturally.

About Biocamp

Biocamp is a company based in Campinas that has been operating in the national and international poultry industry for the last **25 years**. It offers the most complete probiotic line on the market and specific vaccines for laying hens.

At Biocamp, the commitment to excellence brings **together profitability**, **sustainability**, and **well-being to create a future** where animal production, the planet, and people thrive together.

As well as offering products developed with respect for animal and human health and the environment, in compliance with the regulations of the regulatory authorities, Biocamp provides specialized technical support. The company has a highly qualified and well-trained team.

If you are looking for greater profitability for your business, talk to Biocamp!

biocamp® 25 years

Colostrum® probiotic line

The largest **portfolio of probiotics** for the poultry market, with different presentations, making it possible to design specific and customized programs for each poultry production company.

Competitive Exclusion Probiotics (NAGF) or undefined microbiota

The use of competitive exclusion probiotics from the **Colostrum® line** allows the beneficial bacteria introduced by the product to colonize all the birds' intestinal segments, including the caeca, helping to control pathogens such as paratyphoid salmonella, pathogenic strains of *Escherichia coli* (APEC), *Clostridium perfringens*, etc. that cause illness and a drop in performance. The master seed was obtained from the **intestinal microbiota of adult SPF** (*Specific Pathogen Free*) **birds** and **certified free of pathogens.**

Early colonization of the digestive tract from hatching is essential for forming and maintaining the intestinal microbiota, making it difficult for pathogenic bacteria to colonize and proliferate.

Results observed with the use of the Colostrum® line:

- Effective control of enteropathogenic bacteria;
- Reduces mortality in the rearing and production phases in broiler breeders;
- Promotes better weight gain and feed conversion in broilers;
- Reduces antimicrobial treatments.

Probiotics with multiple lactic strains

The Colostrum® Bio 21 line was developed following studies with 160 strains of lactic acid bacteria, which were selected for their ability to adhere to the intestinal mucosa and inhibit pathogenic bacteria such as *Salmonella* Enteritidis, pathogenic *E. coli* and *Staphylococcus aureus*, as well as the ability to multiply. After the studies, 21 strains were chosen, forming the **Colostrum® Bio 21** line of probiotics.

Colostrum® Bio21 promotes intestinal colonization with beneficial bacteria and the balance of the intestinal microbiota, improving the **productivity and well-being of poultry.**

Study carried out with broiler chickens at UNESP Botucatu, 2023

(unpublished data).

Poultry productivity considering projection for 3kg live weight

Treatment	IEP	CA
	Projection 3,0kg	Projection 3,0kg
Group 1 (Bio 21 Liq. spray + Bio 21 Mix)	514 a	1,368 b
Group 2 (without probiotic)	490 b	1,434 a

Averages compared by Tukey's test ($p<0.05$)

Probiotics from the Colostrum® Bio 21 line improve poultry welfare levels

Skin lesions in broiler chickens subjected to different treatments

Treatment	% Haematoma	% Scratches
Group 1 (Bio 21 Liq. spray + Bio 21 Mix)	28,33 c	8,33 c
Group 2 (without probiotic)	46,55 a	29,31 a

Averages compared by Tukey's test ($p<0.05$)

Pododermatitis (PD) lesions in broilers submitted to different treatments

	Group 1 (Bio 21 Liq. spray + Bio 21 Mix)	Group 2 (without probiotic)
PD0	99,39 a	93,05 c
PD1	0,61	1,64
PD2	0,00 c	5,32 a

Averages were compared using the Chi-Square test ($p<0.05$) and transformed into percentages.

PD0	PD1	PD2
Fully intact plantar pad.	Initial lesion with a diameter of up to 5 mm, intermediate discomfort.	Extensive lesion, diameter greater than 5 mm, imminent discomfort to the animal with reduced well-being.

Single strain probiotic - *Bacillus subtilis* (LOFU 160)

Colostrum® BS was developed to meet specific demands for controlling necrotic enteritis (*Clostridium perfringens*) and improving productivity.
The product is compatible with feed pelleting and expansion, premix inclusion, and chemical treatment of feed (formaldehyde), making it easy to use in the field.

Colostrum BS promotes **better intestinal integrity, resulting in better feed efficiency.**

You can find more information about all the probiotics in the **Colostrum® line**, such as instructions for use, dosage, composition, indication, and presentation, on the website:

impulsa

biocamp®

For 25 years,
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