



CYLACTIN®

a balanced approach...

CYLACTIN®

boosting good microflora

HEALTH • NUTRITION • MATERIALS





A simple truth

Live weight gain in growing animals and birds is closely related to gut health. Improve digestive health and you will see reduced digestive disorders, better feed utilization, superior growth rates and better profits.

Efficient digestion and feed utilization requires the maintenance of a balanced gut microflora.

If the microfloral population becomes unbalanced the consequence is poor health and performance, a greater incidence of diarrhea and mastitis-metritis-agalactia (MMA) syndrome and ultimately higher mortality. The big question is how can producers improve gut health cost-effectively?



The answer – CYLACTIN®

Adding **CYLACTIN®** to the diets of sows and piglets, broilers and calves can significantly improve gut health and animal performance, leading to better profits.

CYLACTIN® is a microbial feed additive containing *Enterococcus faecium* NCIMB 10415 which stabilizes the intestinal microflora and has several significant effects in the animal:

- It supports the development of lactic acid producing microflora
- It limits the growth of harmful bacteria including *E. Coli*, Clostridia and Salmonella
- It reduces the levels of ammonia, toxic amines and bacterial toxins in the intestine

- It synthesizes protective substances including L-lactic acid and short-chain fatty acids
- It stimulates the protection of the intestinal wall with the production of more mucosal layer and more antibodies.

CYLACTIN® is not only effective, but it is the answer to the key challenge of getting *Enterococcus faecium* NCIMB 10415 alive to the animal with unique formulations that resist the difficult conditions of modern feed production.

CYLACTIN® – The benefits

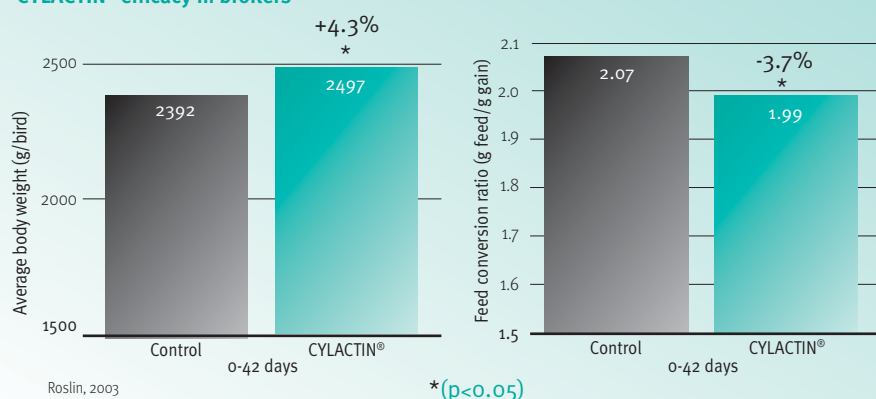


The probiotic of choice

- More stable gut microflora
- Better recovery after antibiotic treatment
- Reduced incidence of diarrhea
- Lower incidence of MMA syndrome
- Increased performance and better animal welfare

CYLACTIN® – The proof

CYLACTIN® efficacy in broilers



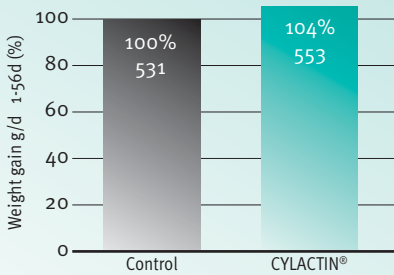
Comprehensive trial data support the benefits of adding CYLACTIN® to diets with results showing better feed conversion, superior live weight gain and improved health. CYLACTIN® delivers big improvements in animal performance, welfare and profits.

Faster growing, more efficient broilers

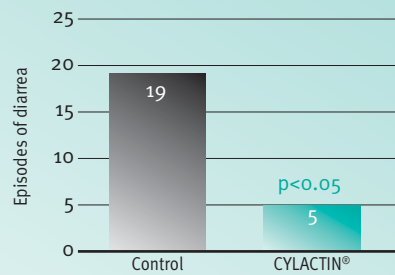
The inclusion of CYLACTIN® in the diets of broilers resulted in a significant improvement in feed conversion ratio (-3.7%) and an increase in average weight gain (+4.3%).



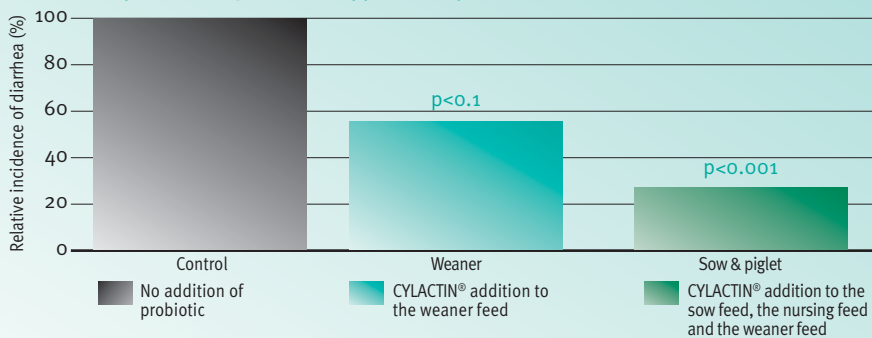
Effect of CYLACTIN® on weight gain



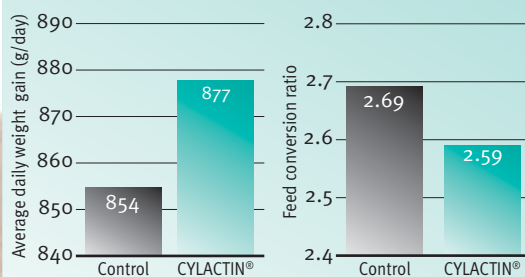
Effect of CYLACTIN® on incidence of diarrhea



Incidence of postweaning diarrhea: Application, procedure and dose



Effect of CYLACTIN® on weight gain and feed conversion in pigs



Le Dividich, INRA France (2002) (pigs, up to 107 kg)

Count of *Salmonella enteritidis* in 2 parts of the broiler digestive tract, 5 days after artificial infection at day 27

Treatment	Crop	Ceca
Control	86,7% (13/15)	53,3% (8/15)
CYLACTIN® ME20 plus	6,7% (1/15)	20,0% (3/15)

Soncini et al. 2010, BR 100720

Healthier calves

Pre-weaning calves are effectively monogastrics and digestive disorders and diarrhea are the major cause of death. Adding CYLACTIN® reduces the incidence of diarrhea and increases daily weight gain resulting in healthier better grown calves at weaning.

Reduced digestive disorders in piglets

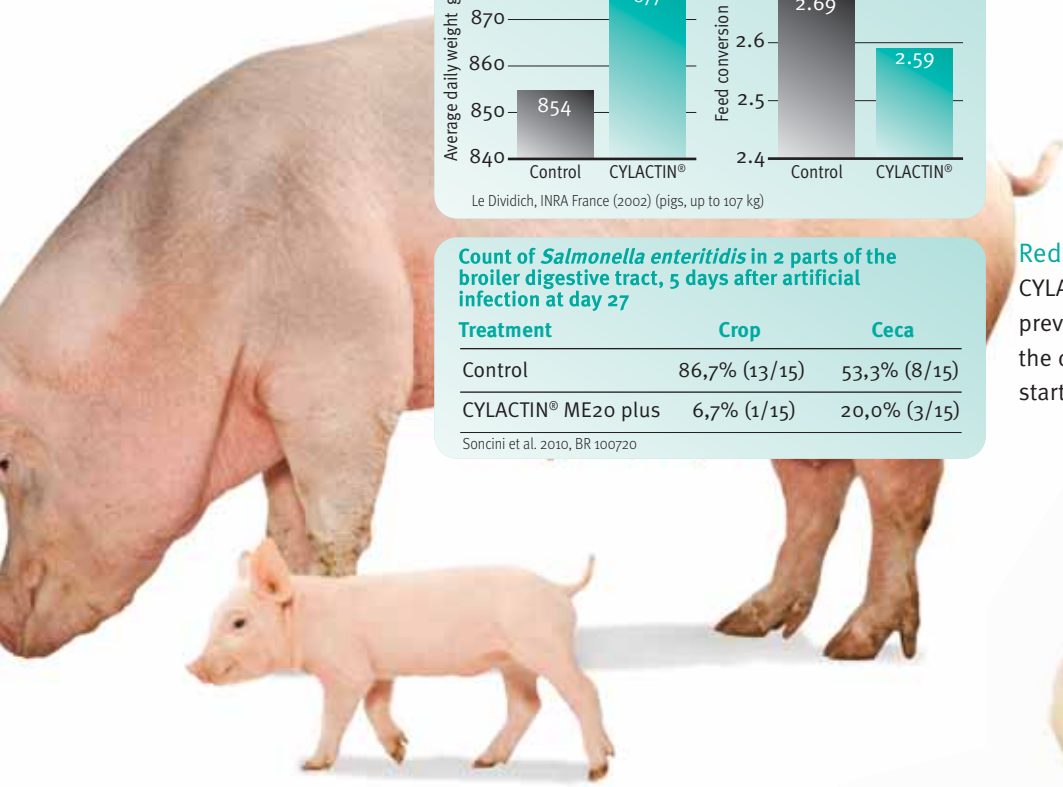
Reducing the incidence of diarrhea in very young pigs can have significant effects on future growth and reduce early mortality. Where piglets and sows are fed CYLACTIN® the result is a greatly reduced incidence of diarrhea.

Superior pig performance

Extensive trials have shown the effect of CYLACTIN® on key performance parameters in pig production including weight gain, feed conversion and mortality.

Reduced Salmonella contamination

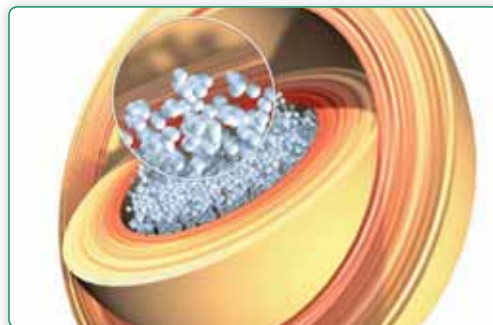
CYLACTIN® has shown to reduce the prevalence of salmonella contamination in the crop and the ceca, when used in the starter or in the withdrawal feed of broiler.



CYLACTIN[®] – Product Information

CYLACTIN[®] is available in two forms:

- **CYLACTIN[®] LBC ME20 plus** is the latest and best protected micro-encapsulated form, it delivers exceptional protection during feed processing and it multiplies rapidly in the gut of the animal. It is replacing CYLACTIN[®] LBC ME10, the other micro-encapsulated form.
- **CYLACTIN[®] LBC G35** is a fine granulate for inclusion in milk replacers.



Safety and stability

The species *Enterococcus faecium* is included on the GRAS (Generally Recognized As Safe) and AAFCO (Association of American Feed Control Officials) lists. CYLACTIN[®] formulations have been assessed as safe by EFSA (European Food Safety Authority) and are approved as feed additive in the European Union.

Product form	Shelf life*	Storage temperatures
CYLACTIN [®] LBC ME20 plus	18 months	at 2-8°C
CYLACTIN [®] LBC ME10	24 months	at 2-8°C
CYLACTIN [®] LBC G35	12 months	at 2-8°C

* stored in the original packaging in dry conditions

CYLACTIN[®] LBC ME20 plus and CYLACTIN[®] LBC ME10 have been shown to be stable in their original packaging at room temperature for 5 months.

CYLACTIN[®] LBC ME20 plus is stable in a single pelleting process up to a maximum energy input of 45kWh/t and a temperature of 95°C.

CYLACTIN[®] LBC ME10 is stable in single pelleting processes up to a maximum energy input of 35kWh/t and a temperature of 85°C.

Recommended dosage*

CYLACTIN [®]	ME20 plus (g/tonne feed)	ME10 (g/tonne feed)	G35 (g/tonne milk replacers)
Broilers	17.5	35	-
Piglets	35	70	20
Fattening pigs	17.5	35	-
Sows	35	70	-
Calves	70	140	40

* Regulatory status and dosage for different species may vary between countries

The formulations of reference

- A new unique, innovative microencapsulated form ensures outstanding stability during feed processing (especially pelleting) and excellent survival up to the animal
- An easily soluble formulation makes it ideal for use in milk replacers.



For further information, please see:
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A0071

January 2012