PentaBiol
Animal Health

POSTBIOTEK RUMINANTS FEED CHANGE

A better digestive adaptation to feed

Postbiotic product obtained from the fermentation of a culture of microorganisms, transformed during the manufacturing process itself
compliant with regulation UE/2017/1017 P.28

Healthier animals.
Effective alternative to coccidiostatics

Co-funded by the Horizon 2020 programme of the European Union

European Commission

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IMPROVES THE DIGESTIBILITY. POWER THE FEED ADAPTATION.

What is POSBIOTEK Ruminants?

POSTBIOTEK Ruminants is a Postbiotic. Its activity lies in the METABOLITES produced by the fermentation of a selection of lactic bacteria and yeasts during our production system, which include:

- Enzymes: amylase, protease, lipase and cellulase.
- Volatile organic acids.
- B-complex vitamins.
- Antiinflammatory molecules.
- Molecules that modulate the innate immune system.

Advantages of POSTBIOTEK Ruminants

- **Enhances the establishment of an adult microbiota** during the feed change period
- **Anticoccidiostatic activity** as an alternative to current prescription treatments
- **Reduction of antibiotic application.**
- **Increases by >30% the production of immunoglobulin A** in respiratory mucosa, when used from birth (see table 1).
- Favours the early **establishment of an adult microbiota.**
- **Lowers the cellular inflammatory response** (see table 2).

Table 1.A IgA Levels in nasal mucosa

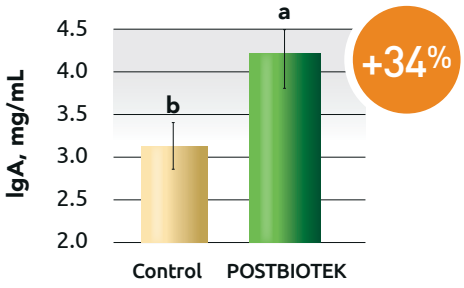
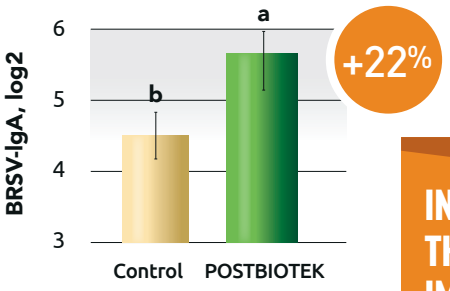
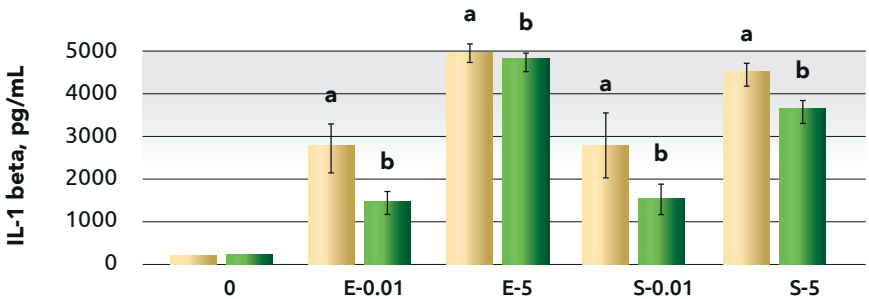


Table 1.B IgA against syncytial virus in nasal mucosa



INCREASES BY >30% THE PRODUCTION OF IMMUNOGLOBULIN A

Table 2. Cellular inflammatory response against E. Coli y salmonella



BETTER INFLAMMATORY RESPONSE

a, b indicates the difference in P <0.05

Data source: South Dakota State University (Dep. Of Dairy and Food Science)

Production guarantee

POSTBIOTEK RUMINANTS is produced with registered strains of lactic bacteria and yeast deposited in the Spanish Standard Culture Collection (CECT), in combination with olive pomace flour.

Raw materials used are of NON-GMO vegetal origin and products are authorised in accordance with the highest production standards.

POSTBIOTEK **RUMINANTS - FEED CHANGE**

When to apply and dose to administer

To apply during the transit of weaning to the first feed for at least 30 days, it contributes to the reduction of dietary disorders and starts more quickly in feed. It is previously recommended to use PROBISAN RUMINANTS M during the first lactation phase, mixed with powdered milk.

Ruminants are subjected from birth to multiple causes of stress that include transport at very early ages to accommodation with high concentrations of pathogenic microorganisms, changes in milk consumption to solid, etc. These circumstances predispose animals to suffer digestive disorders mainly due to coccidiosis problems against which the product is highly effective.

Lactating calves	10 grs / animal and day in two shots 10 days
	5 grs / animal and day the next 20 days
Lactating lamb/kid	6 grs / animal and day in two shots 10 days
	3 grs / animal and day the next 20 days

Composition

Wheat bran, alfalfa flour, and olive pomace flour.

Crude protein	19.64 %
Crude fibre	11.90 %
Crude oils and fats	4.60 %
Crude ash	5.82 %
Lysine	0.82 %
Sodium	0.20 %
Methionine	0.29 %
Calcium	0.27 %
Phosphorous	0.70 %

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Pentabiol S.L
Pol. Indust. Noáin Esquíroz
Calle S/Nave-4
31191 Navarra (SPAIN)
Tel. +34 948 312 028
mail: info@pentabiol.es
www.pentabiol.es