

# PROVEN ANTICOCCIDIAL IN NEW FORMULATION

# Monotec

## MONOTEC 200 microGranulate

- A coccidiostatic additive for broilers, chickens reared for laying and turkeys
- Contains 200 g of monensin sodium per kg
- Available as homogenous granules

## EFFICACIOUS

- Powerful anticoccidial efficacy and productivity-enhancing effect in poultry, leading to improved profitability for poultry producers.
- Allows a few oocysts to survive, helping to build up a natural immunity.
- Significantly reduces the risk of secondary infection by pathogens and minimizes weight loss and poor feed conversion.
- Its specific action mechanism reduces the hazard of resistance build-up.

## SAFE

- Very well tolerated
- Does not adversely affect feed and water intake
- Compatible with most other feed additives (antibiotics, vitamins, minerals)

## FREE-FLOWING

- Unique granulated formulation
- Excellent mixability and homogeneity
- Remains stable during pelletisation



**HUVEPHARMA®**  
WE ADD PERFORMANCE TO YOUR BUSINESS



## ACTIVITY

Monotec is effective against the main coccidia species (including recent field isolates):

- *Eimeria tenella*, *E. acervulina*, *E. praecox*, *E. mitis*, *E. brunetti*, *E. maxima* and *E. necatrix* in chickens.
- *E. adenoides*, *E. meleagrimitis* and *E. gallopavonis* in turkeys.

It is most efficacious in the early stages of the coccidia lifecycle. Monotec allows a few oocysts to survive and helps the young animals to build up a natural immunity. Early control of coccidia prevents damage to the epithelial cells of the gut lining, thus reducing the risk of infections by pathogens, such as *Clostridium perfringens*.

## EFFICACY TRIALS

### BROILERS

Battery-cage, floor-pen and field trials were carried out in France, Spain, Italy, and Belgium.

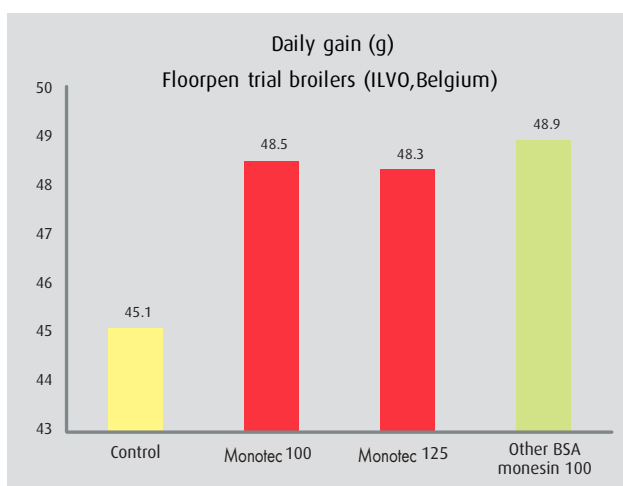
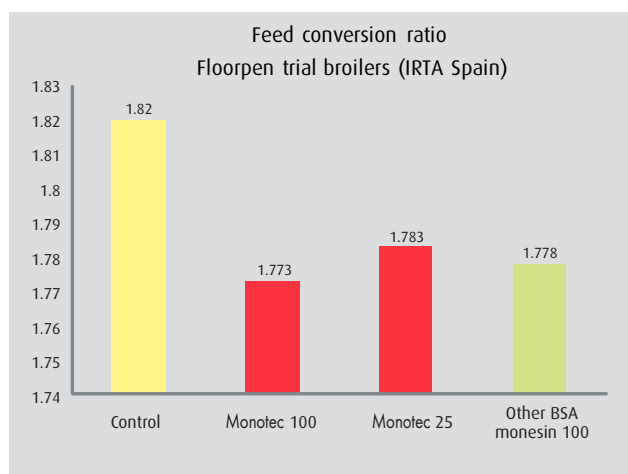
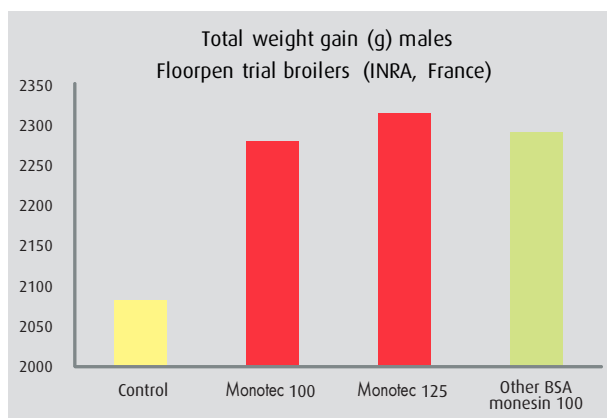
#### RESULTS FROM CONTROLLED FLOOR-PEN TRIALS

6,000 broilers in France, Belgium, and Spain,

Groups

- Monotec 200 microGranulate at 100 and 125 ppm
- Other BSA monensin sodium feed additive, 100 ppm
- Negative control group.

Results were equivalent to, and in some cases even better than the other BSA monensin sodium premix. The reason for this could be the better and more homogenous mixing of the new formulation in the broiler feeds.



## TURKEYS

Turkeys: floor pen study in Evialis, France was conducted. The aim of this study was to assess the efficacy of Monotec in controlling coccidiosis under challenge conditions in floor pens in turkeys.

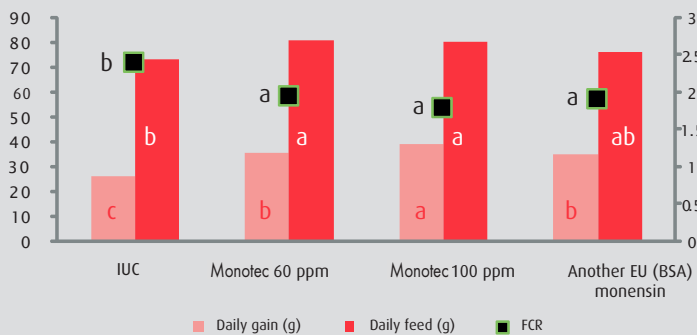
### RESULTS FROM THE TRIAL

1200 male and females turkeys in 7 replicates per treatment were investigated

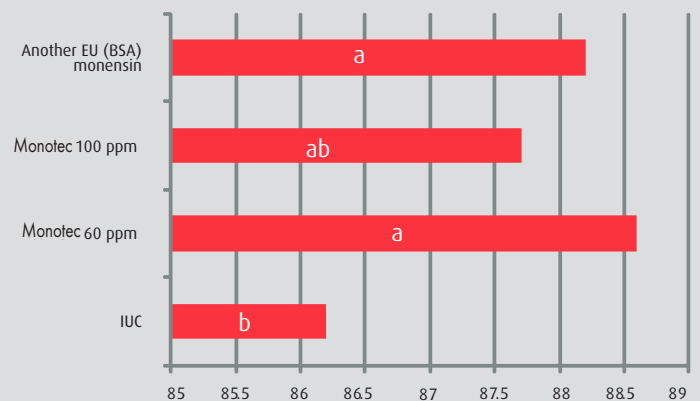
- There was one non-treated infected control group (IUC), two Monotec groups at dosages 60 and 100 ppm and another EU (BSA) monensin at dosage 60 ppm
- At 22 days of age turkeys were inoculated with *Eimeria meleagrimits*, *Eimeria adenoides*, *Eimeria gallopavonis* and *Eimeria meleagridis*



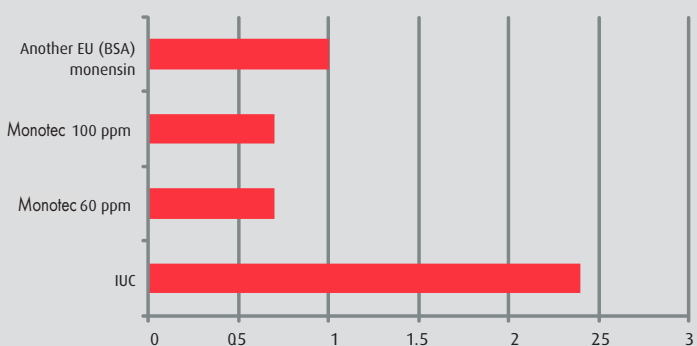
Female animals: Zootechnical results 7 days post inoculation



Female and male animals: Daily gain from day 29 till day 59



Lesions *Eimeria adenoides* (males and females) 7 days post inoculation



This trial demonstrated significant improvements on daily gain and FCR in the Monensin supplemented groups at 60 ppm Monensin compared to the infected untreated control group. No significant differences were observed between Monotec and another EU (BSA) monensin at a concentration of 60 ppm.

## STABILITY

Monotec 200 microGranulate containing monensin sodium (feed additive): 2 years.

Premixes containing Monotec 200 microGranulate: 6 months.

Feedstuffs supplemented with Monotec 200 microGranulate: 3 months

Monotec 200 microGranulate preserves its potency and stability during pelletisation.



## TARGET ANIMAL SAFETY

### Tolerance tests (GLP) in chickens

- Monotec is well tolerated when fed at the recommended maximum dose rate of 125 ppm for 35 days.
- At double and triple concentrations (250 and 375 ppm), a moderate to marked dose-related decreased body weight gain was observed, due to a lower food intake.

### Tolerance tests (GLP) in turkeys

- Monotec is well tolerated when fed for 84 days at a recommended maximum dose rate of 100 ppm.
- The administration of double and triple concentrations (200 and 300 ppm) caused a slight to moderate dose-related lower body weight gain, due to a lower feed and water intake.

## INTERACTIONS

Compatible with most feed additives: antibiotics, vitamins and minerals.  
It is not compatible with tiamulin.

## STORAGE

Store in the original package in a closed, dry and well-ventilated area, at room temperature, protected from direct sunlight.



## POSOLOGY

Monotec 200 microGranulate is mixed in the feed. For the best, most common results, it is recommended to mix in measured quantity in stages.

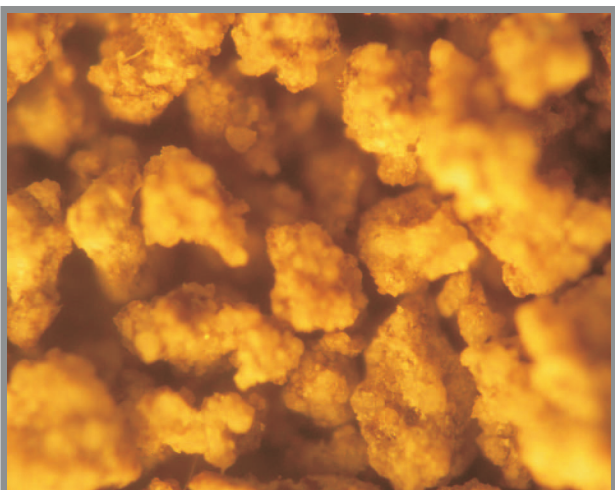
The recommended dose

Target species	Minimum and maximum content of monensin complete feedingstuff (ppm)	Quantity of Monotec 200 incorporated in the feedingstuff (g/ton)	Maximum age	Withdrawal period before slaughter
Chickens for fattening	100-125	500-625	-	1 day
Chickens reared for laying	100-125	500-625	16 weeks	1 day
Turkeys	60-100	300-500	16 weeks	1 day

## FORMULATION FEATURES

- Excellent stability and mixing properties.
- The new, granulated formulation has a major advantage over other formulations that still use the outdated and inefficient technique of simple mixing, a process, which may result in variable concentrations of active particles in the feed.
- Monotec ensures animals will eat feed containing correctly dosed active material - a significant advantage.
- This formulation enables the correct dosage of the active ingredient to be mixed in the animal feed and applied to the bird, regardless of the age or weight.
- The granulation technique also helps to prevent granules from segregating during production, transportation and storage.
- Monotec's formulation covers the optimal particle size distribution range of 200 µm – 500 µm.
- Excellent flowability characteristics - mainly achieved through its excellent particle size distribution.

### GRANULATED FORMULA



Monotec 200 microGranulate

### SIMPLE MIXING



Another EU (BSA) monensin

# KEY ADVANTAGES

## MONOTEC 200 microGranulate – YOUR PARTNER IN ROTATION PROGRAM

- Monotec 200 microGranulate has proven anticoccidial and productivity-enhancing effects in poultry, leading to improved profitability for poultry producers.
- Its active ingredient, monensin sodium, is a broadspectrum coccidiostat with proven efficacy against the major coccidia species in chickens and turkeys, while allowing natural immunity to develop.
- The protective action of Monotec 200 microGranulate reduces the risk of secondary infections, leading to reduced medication costs.
- Monotec 200 microGranulate has been shown to have positive impact on feed conversion rate and reduced feed costs.



## MONOTEC 200 microGranulate – SUPERIOR PREMIX CHARACTERISTICS

- The unique way in which it is formulated is significantly superior to similar products which use outdated simple mixing
- Monotec 200 microGranulate's formulation ensures that the active ingredients are distributed evenly throughout the feed, with no segregation during transportation, storage and dispensing.
- Monotec 200 microGranulate has been carefully formulated to enable the granules to flow smoothly through mixing equipment without the generation of excessive dust and reducing the risk of carry-over.
- Monotec 200 microGranulate has excellent stability properties. Its potency is preserved during processing (pelletisation) and storage, both as a premix and in compound feed.

## MONOTEC 200 microGranulate – SAFETY PROFILE

- Monotec 200 microGranulate is compatible with most other feed additives (antibiotics, vitamins, and minerals).
- It is well tolerated in broilers, chickens reared for laying and turkeys and has no impact on feed intake
- Withdrawal period for meat: 1 day for broilers and chickens reared for laying, 1 day for turkeys
- Monotec 200 microGranulate is safe for the environment and is not reabsorbed by plants fertilised with manure from poultry treated with the compound.