



Less risk of enteric disorders

- *Clostridium perfringens* is the agent causing necrotic enteritis and related subclinical conditions. Coccidiosis is a major predisposing factor and enhances the susceptibility of the gut wall for invasion with *Clostridium perfringens*
- Robenidine has a proven MIC level for *Clostridium perfringens*

table 1

MIC's of different *C.perfringens* strains isolated from chickens tested on Mueller-Hinton II agar and incubated anaerobically:

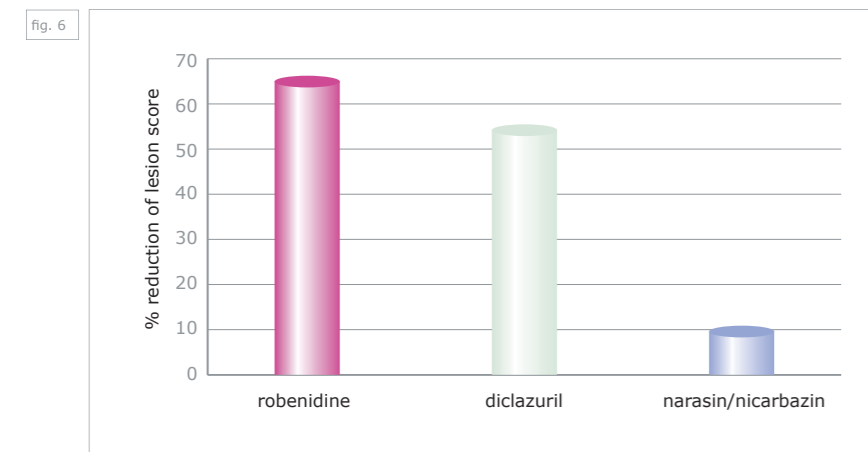
strain ref.	MIC	strain ref.	MIC
266/8867	4	En14	4
266/8829	4	En13	2
94/1394	4	En12	2
De98/4	4	De98/1	2
Ro2	4	Fin98/1	4
En11	4	En19	8
En115	2	En18	8

ref. Devrieze L.A. and Butaye P. (1999)
In vitro activity of Robenidine on bacterial strains from target species. Faculty of Vet. Med., University of Ghent, Belgium

*MIC: Minimal Inhibitory Concentration, µg/ml

Superior reduction of lesion score compared to other chemicals

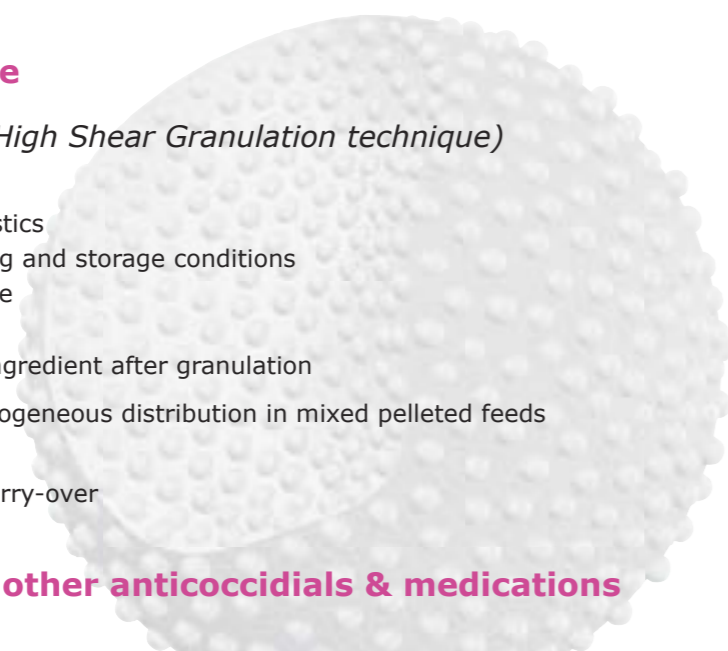
- Due to the impact of robenidine on 2 different stages of the live cycle of coccidia, the reduction of lesion score is better compared to other chemicals such as diclazuril



ref. Internal AST's

Reliable and safe product to use

- Unique Granular formulation (*High Shear Granulation technique*)
 - Dust-free
 - Good mixability and flowing characteristics
 - Excellent stability under feed processing and storage conditions
 - Reduced carry over in feed manufacture
- ▶ Accurate dosing due to less loss of active ingredient after granulation
- ▶ Optimal availability for the bird due to homogeneous distribution in mixed pelleted feeds for broilers
- ▶ Reduced need for flushing due to limited carry-over



No known incompatibility with other anticoccidials & medications



TRUSTED REFERENCE

thorough clean-up



- Highly potent and effective chemical anticoccidial for controlling all *Eimeria* species, even strains resistant to ionophore anticoccidials or other chemicals.
- Ideal for use as clean-up in full & shuttle anticoccidial programmes.
- 'Re-sensitizes' coccidia and therefore renews the effectiveness of ionophores in future preventive anticoccidial programmes.
- Reduces the occurrence of enteric disorders aggravated by coccidiosis such as necrotic enteritis.



Cycostat®, don't you prefer a thorough cleaning?



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For more information, please contact your Alpharma Animal Health representative

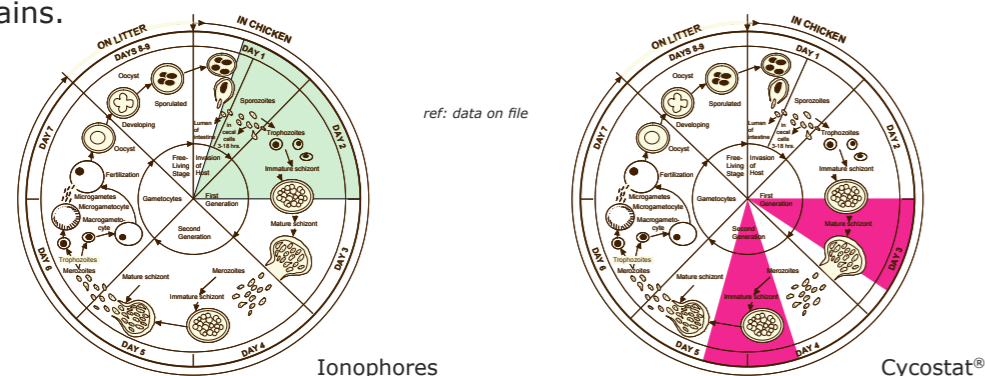
trusted reference



Cycostat®, a potent and efficient coccidiosis control

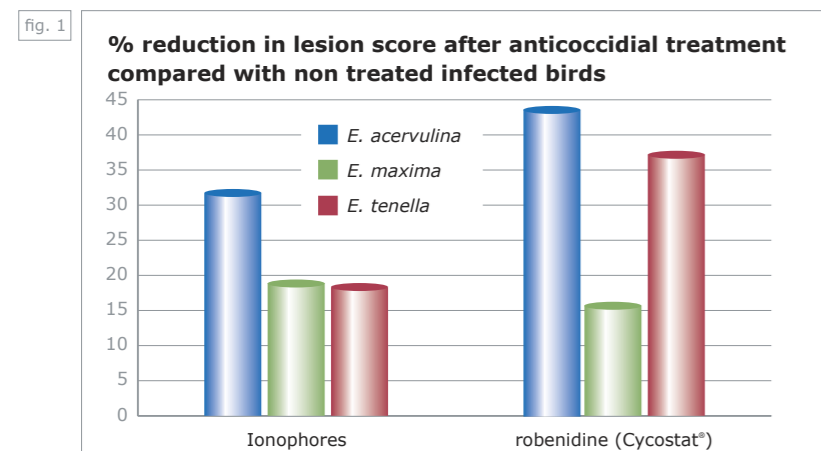
POTENCY

- Cycostat®, robenidine hydrochloride, is a highly potent chemical anticoccidial for broilers and turkeys.
- Chemicals affect the multiplication of coccidia during two stages of the live cycle, while ionophore anticoccidials only affect the oocysts during one stage.
- Use of chemical anticoccidials also prevents leakage of ionophore resistant and sensitive strains.



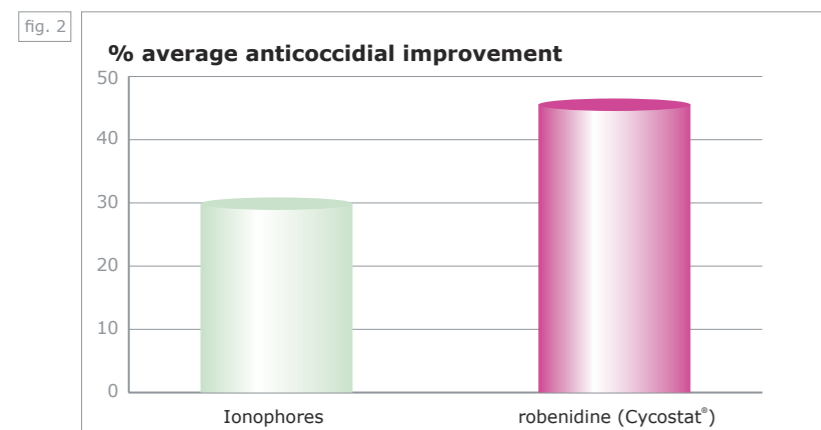
EFFICACY

- Sensitivity tests show Cycostat® is highly effective in the prevention of coccidiosis caused by all economically important *Eimeria* species in broilers. Compared to ionophore anticoccidials the results with Cycostat® are clearly superior.



Cycostat® results in a higher reduction of lesion score than ionophore anticoccidials.

(average results 18 AST's*)



Superior recovery of weight gain versus infected untreated birds compared to other anticoccidial treatments.

(average results 51 AST's*)

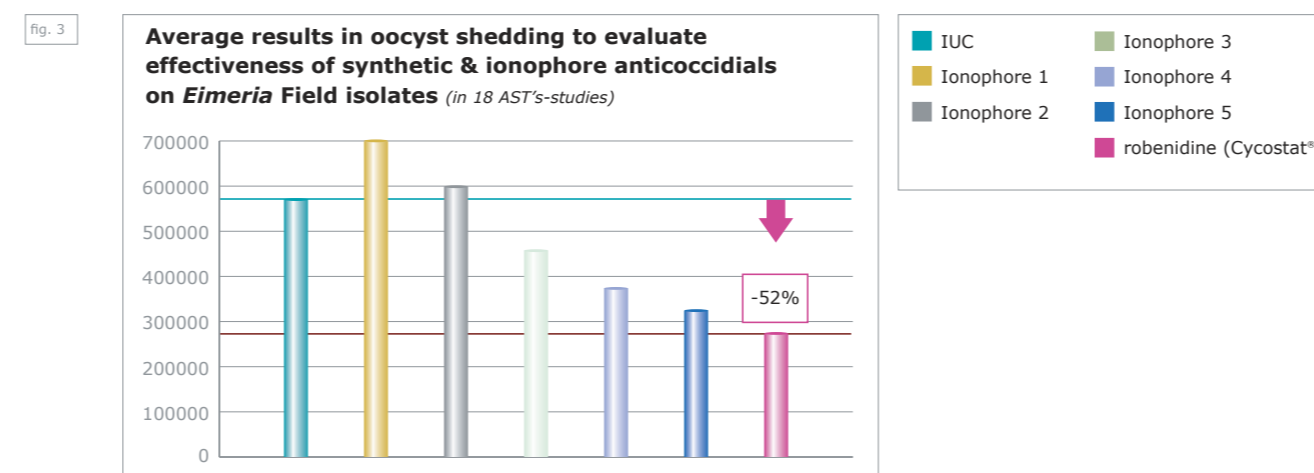
* AST = Anticoccidial Sensitivity Test, performed under high challenge conditions

Chemical clean-up, part of a strategic anticoccidial programme in broiler flocks

- Coccidia have a tremendous reproductive capability which can result in a strong increase of infection pressure in a relatively short period. To prevent an increased infection pressure or in case of a high challenge situation a radical strategy is needed to reduce the risk of clinical coccidiosis development.

What is a clean-up strategy ?

- decisively suppressing coccidiosis infection pressure in flocks by using a chemical anticoccidial > reduces oocyst shedding in broilers to a minimum level compared to ionophore anticoccidials



Advantages:

- a quick method of reducing the level of *Eimeria* infection to boost performance and prevent clinical coccidiosis
- allows ionophores to rest and thus to "re-sensitize" coccidia thereby increasing the efficacy of ionophore anticoccidials used in future preventive programmes for broilers and turkeys
- reduces the level of potentially (cross) resistant parasites and therefore slows down the selection towards resistant or tolerant strains

Synthetic or chemical anticoccidials are very effective compared to ionophore anticoccidials in thoroughly cleaning-up a flock environment of oocysts

Cycostat® is an ideal clean-up product to be used in programmes designed to prevent (sub)clinical coccidiosis because of:

- its potent and broad spectrum anticoccidial activity
- its unique chemical structure of robenidine which prevents cross resistance with other anticoccidials



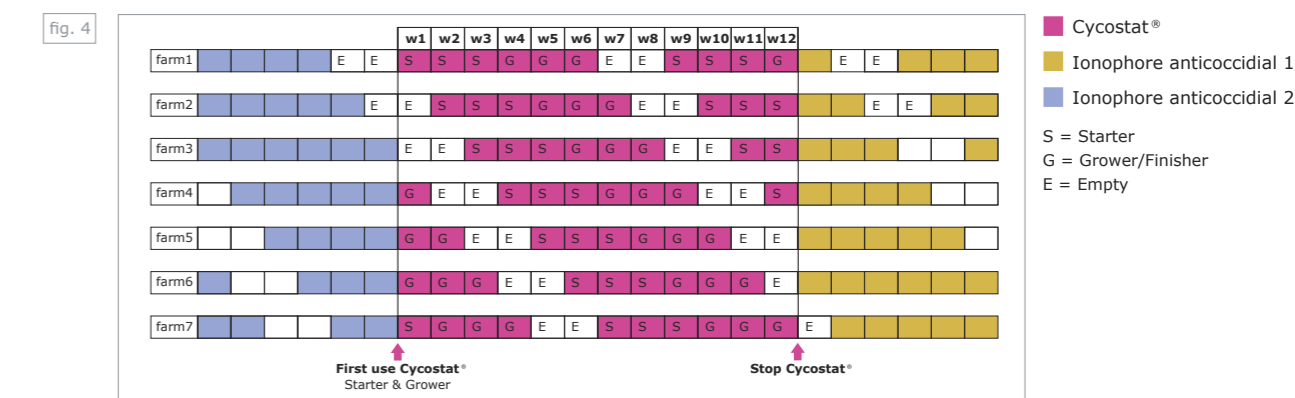
Cycostat®, a thorough clean-up of the flock reducing (resistant) Eimeria strains

- as a full cycle clean-up strategy
- as a clean-up in a shuttle programme

FULL CLEAN-UP PROGRAMME

At farm level: use of Cycostat® in starter and grower feed to perform a clean-up during one complete grow out cycle.

At feed mill level: Cycostat® needs to be implemented during a period of 3 months in order to realize on all farms a full grow out cycle clean-up.

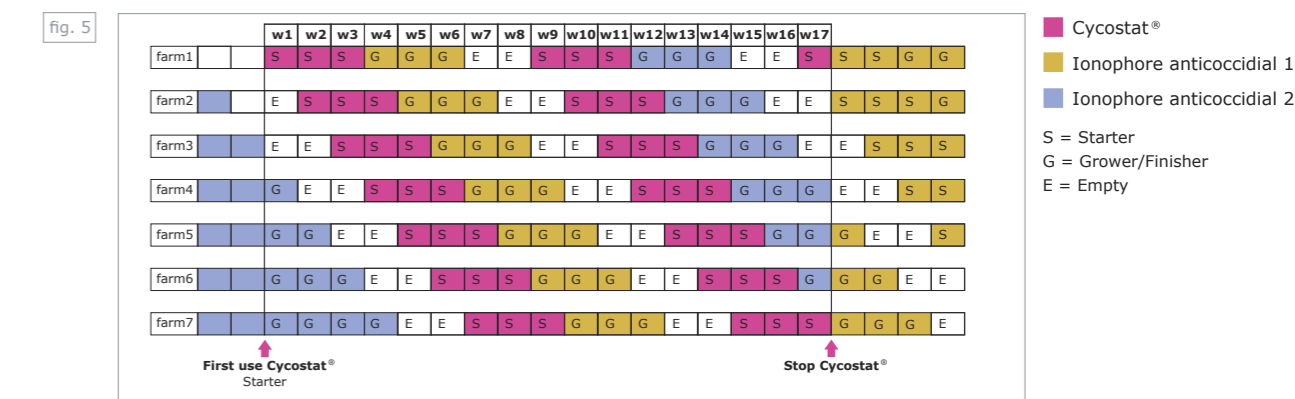


3 months Cycostat® to cover one full cycle on every farm !

SHUTTLE CLEAN-UP PROGRAMME

At farm level: Cycostat® used in starter feed until day 14-21

At feed mill level: it takes minimum 2 starter periods in one cycle with Cycostat® on every farm to realize a good clean-up of the flocks. In case of use in grower/finisher feed as a shuttle programme, it takes up to 18 weeks.



17 weeks Cycostat® to cover 2 starter periods on every farm !

A full clean-up programme provides a higher and faster reduction of infection pressure compared to a shuttle clean-up programme.

