

the perfect strategic fit



**efficient
& secure**

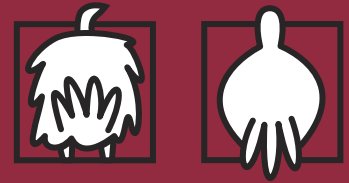
Cygro[®]

 **ALPHARMA**[™]
Animal Health Division



your trusted partner
SUPPORT & ADVISE

Efficient



Cygro

A unique powerful tool in coccidiosis control

- Cygro®, 1% maduramicin ammonium, is a monovalent *glycoside* ionophore anticoccidial used for prevention of coccidiosis in broilers and turkeys
- it is the only BSA (*brand specific approved*) maduramicin feed additive available

Cygro

Perfect fit in rotation programmes

- a good anti-coccidial programme includes rotation between products with different modes of action. For this, synthetic anticoccidials and ionophores from various classes can be used;

MONOVALENT IONOPHORES

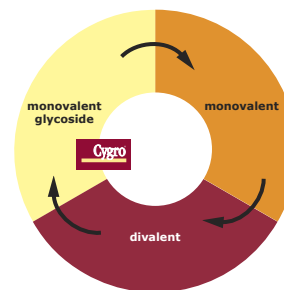
- salinomycin
- monensin
- narasin

DIVALENT IONOPHORES

- lasalocid

MONOVALENT GLYCOSIDE IONOPHORES

- maduramicin (Cygro®)
- semduramicin



Due to its chemical structure, maduramicin shows a different selectivity for the monovalent cation pumps of oocyst walls compared to other ionophores.

Therefore alternating with Cygro® in a rotation or shuttle programme decreases the risk of development of resistance and helps maintaining an optimal efficacy of the next ionophore anticoccidial treatment.

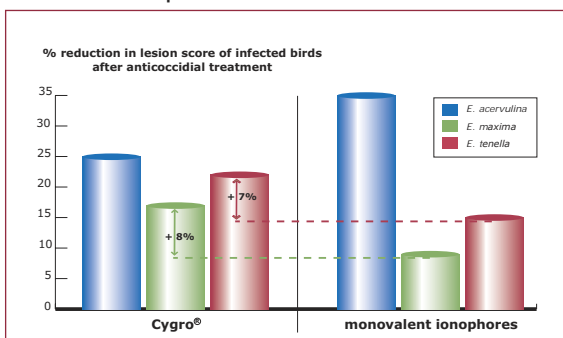
high selectivity	Cygro® maduramicin	Monovalent ionophores
	K +	Na +
	Rb +	K +
	Na +	Rb +
	Li +	Li +
low selectivity	Cs +	Cs +

Cygro® offers a powerful coccidiosis control with minimal cross resistance making it a perfect fit for rotation or shuttle programmes

Cygro

An effective broadspectrum anticoccidial

Maduramicin's unique mode of action efficiently reduces the prevalence of *Eimeria* species, especially *E. maxima* and *E. tenella*, the economically most important ones.



Greater reduction of lesion score compared to other ionophore anticoccidials

(Based on results of 61 AST's*)

*AST= Anticoccidial Sensivity Test performed under high challenge conditions

Cygro

Highly effective even in heat stress conditions

Cygro® stays highly effective under widely varied climatic conditions. During hot and dry weather, research results show that Cygro® reduces the heat stress in birds compared to several other anticoccidials.





ref. Cygro® Technical Manual

Secure

Cygro

Maximum flexibility

- Cygro® can be simultaneously used with other therapeutic agents in the feed

Treatment	Erythromycin	Tylosin	Sulfonamides	Chlortetracyclines
Cygro®				

ref. -'Incompatibility studies with veterinary medical products', Internal BSA dossier Cygro® 1%
 -'The compatibility of the new ionophore coccidiostats with other chemotherapeutics in broilers', Lazay P. *et al.* Deutsch Tierärztliches Wochenschrift, October 1989
 -'Ionophore toxicity in chickens: a review of pathology and diagnosis', Dowling, 1992

Cygro

Less risk of financial loss due to residues

- Cygro® is a dust free, free flowing and low electrostatic feed additive. The dust hazard to feedmill and farm-operators is minimal and ensures a homogeneous in-feed distribution
- The extent of carry-over of a feed additive depends among other things on these physico chemical characteristics of the active component. It is correlated with a 'relative wall adhesion factor' (RWF), a parameter that, if <1, assures you that the carry-over does not exceed maximum permitted levels so that undesirable and unacceptable residues are avoided. (according to GMP manufacturing standards).







The RWF for Cygro® of is 0,8* which makes it a safe feed additive to use (no extra flushing needed).

*ref. -Wall adhesion test, certificate of analysis, TNO (Netherlands Institute of applied scientific research) - Internal data, available on file

Cygro

Security when accidentally fed to other species

- When a maduramicin medicated broiler/turkey feed (5ppm) is accidently fed to non target avian species it will have no detrimental effect

Species	Laying hen	Breeder hen	Guinea Fowl	Quail	Pheasant	Goose
Cygro®						

*ref. N.G. Fowler, FRCVS, Department bacteriology, DVR, Anticoccidial Compendium, 1995

Cygro®

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Cygro

The monovalent glycoside ionophore rotation partner of choice

Cygro

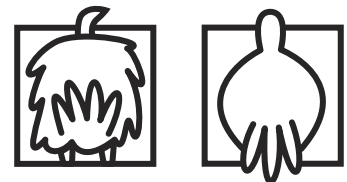
Provides optimal coccidiosis control

Cygro

Proven security profile for flexible use



The perfect fit ...



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