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Anticoccidials Comparison

Monovalent Ionophores

Active substance:	Salinomycin	Narasin derivative of salinomycin	Monensin
Dosage of active substance:	60 ppm	70-80 ppm	100-120ppm
Dosage of premix:	500 gm/ton	60-70 gm/ton	500-6000 gm/ton
Withdrawal period:	5 days	3 days	3 days
Max. acceptable dosage:	90 ppm	80-100ppm	121-150ppm
Point of action:	Sporozoites, Merozoites I + II	Sporozoites, Schizonts	Sporozoites, schizonts
Mode of action:	Cell wall	Cell wall	Cell wall
Problem species:	E. Tenella, E. Maxima		
Necrotic Enteritis	Effective	Effective	Effective
Development of resistance:	Very slow	Very slow	Very slow
Limitations:	• Not used in turkeys • Use only in winter season	• Summer product, maintains bird comfort zone during high temperature seasons.	• Used as a straight program or as a shuttle in finisher feed. • Winter product, dry litter

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Monovalent glycoside + Bivalent Ionophores

Active substance:	Maduramicin	Semduramicin	Lasalocid
Dosage of active substance:	5 ppm	25 ppm	60 – 125 (90) ppm
Dosage of premix:	250 g/ton	250 g/ton	600 gm/ton
Withdrawal period:	7 days	7 days	5 days
Max. acceptable dosage:	(6) – 7 ppm	29 ppm	100 ppm
Point of action:	sporozoites, schizonts	Sporozoites, schizonts	Sporozoites, merozoites I + II
Mode of action:	Cell wall	Cell wall	Cell Wall
Problem species:	E. Acervulina, E. Maxima	E. Acervulina , E. Maxima, E. Tenella	E. Acervulina, E. Maxima
Necrotic Enteritis	No Effect	No Effect	Effective
Development of resistance:	Slow	Slow	Very slow
Limitations:	• Low margin of dosage. • Increase dose will cause growth depression • Wet Litter issues • Poor FCR	• Low margin of dosage • Increase dose will cause Ionophore toxicity • Interaction with most pellet binder • Poor Performance	• Bad efficiency at low dose (60 –70) • Wet litter issues at 90 ppm • Egg residues

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Maxiban

Active substance:	Narasin + Nicarbacin
Dosage of active substance	
Dosage of premix	625 gm/ton (50:50)
Withdrawal period	9 days
Max. acceptable dosage	
Point of action	All stages
Mode of action	
Problem species	E.Tenella, E. Acervulina, E. Maxima
Necrotic Enteritis	Effective
Development of resistance	very slow
Recommendations:	• Used as a shuttle program with other Ionophore during the whole year. • Summer product, maintains bird comfort zone during high temperature seasons. • Not used in laying hens

Chemicals

Active substance:	Robinidine	Diclazuril	Nicarbazine	Clopidol
Dosage of active substance	33 ppm	120 ppm	125 ppm	
Dosage of premix	500 gm/ton	200 g	500 gm/ton	125 ppm
Withdrawal period	5 days	5 days	9 days (first 4 weeks)	
Max. acceptable dosage	3 times recommended dose	< 25 ppm	About 250 ppm	
Point of action	Species dependent: merozoites, sporozoites	Species dependent: schizonts, gamonts, zygotes	Second generation schizonts and merozoites	sporozoites or trophozoites
Mode of action	Disturb Energy Forming	Mitochondria	Paralysis of energy granules.	
Problem species	E. Acervulina - E. Maxima	E. Acervulina, E. Maxima	• Excellent efficacy against tenella • Weak against some intestinal spp.	
Necrotic Enteritis	No Effect	No Effect	No activity.	
Development of resistance	Very fast within same flock	Very fast after two flocks, tenella and bruneti	Very slow	
Limitations:	• Increase heat stress in summer • Reduce feed intake in finisher	- Don't use more than one flock (straight)	• Layers / breeders • At 125ppm (heat stress issues and reduced growth (finisher)	
Recommendation	Use in shuttle program (1 flock)	- Use as straight program for one flock in high challenge times. - Use as shuttle program.	Use only in shuttle programs	it should be in the feed of chickens on the day of exposure to coccidial oocyst.

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scientific Office:
12 Abbas El Akad St., 9th district, El Obour City, Egypt
Tel. and fax: +2 02 43126096
Cellular: +2 0120 51 00 700
E-mail: info@solveda.net

Factory
192 small industrial area, El Obour City B/C, Egypt
Tel.: (+2) 02 4487 40 50
(+2) 02 4487 44 80
Website: www.solveda.net