

Drench		Resistance		Status		Useful information
Type of Worm	Barber's pole		Scour worms	Nodule	Liverfluke	
	Summer Rainfall	Other regions				
Benzimidazole (BZ)	Yes***	Yes**	Yes***		Yes*	BZs may still be useful against roundworms when administered with unrelated actives in combination products or in a long-acting product (capsule) when given with an effective primer
Levamisole / morantel (LEV)	Yes**		Yes***			Levamisole may still be useful when administered with unrelated actives in combination products.
Organophosphate (OP)	Yes*	Yes*	Yes*	-		
Salicylanilides/Phenols (SAL-P)	Yes***	Yes*	-	-	Yes*	
Macrocyclic lactone (ML)	Yes***	Yes**	Yes*			Unless resistance is severe, MLs may still be useful when administered with unrelated actives in <a href="#">combination</a> products. Moxidectin-based long-acting products may still be useful when given with an effective primer
Amino-acetonitrile derivative (AAD)	Unknown	Unknown	Unknown	-	Unknown	
Triclabendazole (BZ Flukicide)	-	-	-	-	Yes*	
Isoquinolone (ISO)						
Benzimidazole and levamisole (BZ and LEV)	Yes**	Unknown	Yes***		Yes*	Unless resistance is severe, these combinations may still be useful when administered with unrelated actives in triple or quadruple combination products. Activity of the BZ group also aids in control of adult liver fluke.
Benzimidazole and salicylanilide (BZ and SAL-P)	Yes***		Yes***			
Benzimidazole and triclabendazole (BZ and BZ Flukicide)	Yes***		Yes***		Unknown	
Macrocyclic lactone and salicylanilide (ML and SAL-P)	Yes***		Yes*/**			
Macrocyclic lactone and triclabendazole (ML and BZ Flukicide)	Yes***	Yes**	Yes*/**		Yes*	
Macrocyclic lactone and isoquinolone (ML and ISO)						See isoquinolone and macrocyclic lactone for resistance notes
Benzimidazole and macrocyclic lactone and levamisole (BZ and ML and LEV)	Yes*/**		Yes*/**		Yes*	

Benzimidazole and organophosphate and (BZ and OP)	Yes*	Yes*				Because OPs have variable activity against scour worms and immature barber's pole worm, the efficacy of this combination against these worms also depends on the resistance status of benzimidazole (see benzimidazole for resistance note).
Benzimidazole and levamisole and organophosphate (BZ and LEV and OP)	Yes*	Yes*				Because OPs have variable activity against scour worms and immature barber's pole worm the efficacy of this combination also depends on the resistance status of benzimidazole and levamisole (see benzimidazole and levamisole for resistance note)
Macrocyclic lactone and benzimidazole and salicylanilide and levamisole (ML and BZ and SAL-P and LEV)	Yes*	Unknown	Yes*/**			In this product, the salicylanilide active is a short-acting form of closantel.
Macrocyclic lactone and benzimidazole (ML and BZ)	Yes***	Yes**	Yes*/**		Yes*	
Levamisole and isoquinolone (LEV and ISO)	Yes**		Yes***			
Levamisole and salicylanilide (LEV and SAL-P)	Yes***	Yes*	Yes***			
Macrocyclic lactone and spiroindole (ML and SPIRO)						
Benzimidazole and levamisole and isoquinolone (BZ and LEV and ISO)	Yes**		Yes***		Yes*	
Spiroindole (SPIRO)						This is not expected to be available as a single active ingredient drench.
Drench	Resistance		Status			
Type of Worm	Barber's pole		Scour worms	Nodule	Liverfluke	Useful information
	Summer Rainfall	Other regions				
Benzimidazole (BZ)	Yes***	Yes**	Yes***		Yes*	BZs may still be useful against roundworms when administered with unrelated actives in combination products or in a long-acting product (capsule) when given with an effective primer
Levamisole / morantel (LEV)	Yes**		Yes***			Levamisole may still be useful when administered with unrelated actives in combination products.
Organophosphate (OP)	Yes*	Yes*	Yes*	-		

Salicylanilides/Phenols (SAL-P)	Yes***	Yes*	-	-	Yes*	
Macrocyclic lactone (ML)	Yes***	Yes**	Yes*			Unless resistance is severe, MLs may still be useful when administered with unrelated actives in <a href="#">combination</a> products. Moxidectin-based long-acting products may still be useful when given with an effective primer
Amino-acetonitrile derivative (AAD)	Unknown	Unknown	Unknown	-	Unknown	
Triclabendazole (BZ Flukicide)	-	-	-	-	Yes*	
Isoquinolone (ISO)						
Benzimidazole and levamisole (BZ and LEV)	Yes**	Unknown	Yes***		Yes*	Unless resistance is severe, these combinations may still be useful when administered with unrelated actives in triple or quadruple combination products. Activity of the BZ group also aids in control of adult liver fluke.
Benzimidazole and salicylanilide (BZ and SAL-P)	Yes***		Yes***			
Benzimidazole and triclabendazole (BZ and BZ Flukicide)	Yes***		Yes***		Unknown	
Macrocyclic lactone and salicylanilide (ML and SAL-P)	Yes***		Yes*/**			
Macrocyclic lactone and triclabendazole (ML and BZ Flukicide)	Yes***	Yes**	Yes*/**		Yes*	
Macrocyclic lactone and isoquinolone (ML and ISO)						See isoquinolone and macrocyclic lactone for resistance notes
Benzimidazole and macrocyclic lactone and levamisole (BZ and ML and LEV)	Yes*/**		Yes*/**		Yes*	
Benzimidazole and organophosphate and (BZ and OP)	Yes*	Yes*				Because OPs have variable activity against scour worms and immature barber's pole worm, the efficacy of this combination against these worms also depends on the resistance status of benzimidazole (see benzimidazole for resistance note).
Benzimidazole and levamisole and organophosphate (BZ and LEV and OP)	Yes*	Yes*				Because OPs have variable activity against scour worms and immature barber's pole worm the efficacy of this combination also depends on the resistance status of benzimidazole and levamisole (see benzimidazole and levamisole for resistance note)
Macrocyclic lactone and benzimidazole and salicylanilide and levamisole (ML and BZ and SAL-P and LEV)	Yes*	Unknown	Yes*/**			In this product, the salicylanilide active is a short-acting form of closantel.

Macrocyclic lactone and benzimidazole (ML and BZ)	Yes***	Yes**	Yes*/**		Yes*	
Levamisole and isoquinolone (LEV and ISO)	Yes**		Yes***			
Levamisole and salicylanilide (LEV and SAL-P)	Yes***	Yes*	Yes***			
Macrocyclic lactone and spiroindole (ML and SPIRO)						
Benzimidazole and levamisole and isoquinolone (BZ and LEV and ISO)	Yes**		Yes***		Yes*	
Spiroindole (SPIRO)						This is not expected to be available as a single active ingredient drench.