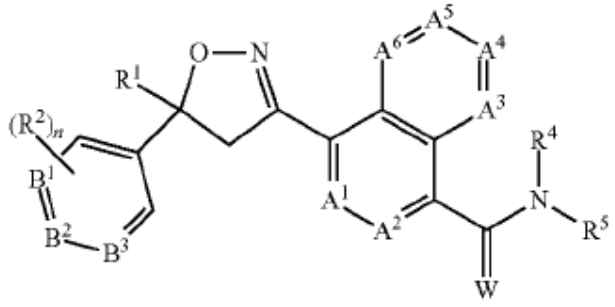
What is claimed is:

1. A soft chewable veterinary composition for treating and/or preventing a parasitic infection or infestation in an animal comprising:

a) a combination of:

(i) at least one isoxazoline active agent of Formula (I):



wherein:

A^1, A^2, A^3, A^4, A^5 and A^6 are independently selected from the group consisting of CR^3 and N, provided that at most 3 of A^1, A^2, A^3, A^4, A^5 and A^6 are N;

B^1, B^2 and B^3 are independently selected from the group consisting of CR^2 and N;

W is O or S;

R^{1-} is C_1-C_6 alkyl, C_2-C_6 alkenyl, C_2-C_6 alkynyl, C_3-C_6 cycloalkyl, C_4-C_7 alkylcycloalkyl or C_4-C_7 cycloalkylalkyl, each optionally substituted with one or more substituents independently selected from R^6;

each R^2 is independently H, halogen, C_1-C_6 alkyl, C_1-C_6 haloalkyl, C_1-C_6 alkoxy, C_1-C_6 haloalkoxy, C_1-C_6 alkylthio, C_1-C_6 haloalkylthio, C_1-C_6 alkylsulfinyl, C_1-C_6 haloalkylsulfinyl, C_1 -C_6 alkylsulfonyl, C_1-C_6 haloalkylsulfonyl, C_1-C_6 alkylamino, C_2-C_6 dialkylamino, C_2-C_4 alkoxycarbonyl, –CN or–NO_2;

each R^3 is independently H, halogen, C_1-C_6 alkyl, C_1-C_6 haloalkyl, C_3-C_6 cycloalkyl, C_3-C_6 halocycloalkyl, C_1-C_6 alkoxy, C_1-C_6 haloalkoxy, C_1C_6 alkylthio, C_1-C_6 haloalkylthio, C_1-C_6 alkylsulfinyl, C_1-C_6 haloalkylsulfinyl, C_1 -C_6 alkylsulfonyl,C_1-C_6 haloalkylsulfonyl, C_1-C_6 alkylamino, C_2-C_6 dialkylamino, –CN or –NO_2;

R^4 is H, C_1-C_6 alkyl, C_2-C_6 alkenyl, C_2-C_6 alkynyl, C_3-C_6 cycloalkyl, C_4-C_7 alkylcycloalkyl, C_4-C_7 cycloalkylalkyl, C_2-C_7 alkylcarbonyl or C_2-C_7 alkoxycarbonyl;

R^5 is H, OR^{10}, $NR^{11}R^{12}$ or Q^1; or C_1-C_6 alkyl, C_2-C_6 alkenyl, C_2-C_6 alkynyl, C_3-C_6 cycloalkyl, C_4-C_7 alkylcycloalkyl or C_4-C_7 cycloalkylalkyl, each optionally substituted with one or more substituents independently selected from R^7; or

R^4 and R^5 are taken together with the nitrogen to which they are attached to form a ring containing 2 to 6 atoms of carbon and optionally one additional atom selected from the group consisting of N, S and O, said ring optionally substituted with 1 to 4 substituents independently selected from the group consisting of C_1-C_2 alkyl, halogen, –CN, – NO_2 and C_1-C_2 alkoxy;

each R^6 is independently halogen, C_1-C_6 alkyl, C_1-C_6 alkoxy, C_1-C_6 alkylthio, C_1-C_6 alkylsulfinyl, C_1-C_6 alkylsulfonyl, –CN or –NO_2;

each R^7 is independently halogen; C_1-C_6 alkyl, C_3-C_6 cycloalkyl, C_1-C_6 alkoxy, C_1-C_6 alkylthio, C_1-C_6 alkyl-sulfinyl, C_1-C_6 alkylsulfonyl, C_1-C_6 alkylamino, C_2-C_8 dialkylamino, C_3-C_6 cycloalkylamino, C_2-C_7 alkylcarbonyl, C_2-C_7 alkoxycarbonyl, C_2-C_7 alkylaminocarbonyl, C_3-C_9 dialkylaminocarbonyl, C_2-C_7 haloalkylcarbonyl, C_2-C_7 haloalkoxycarbonyl, C_2-C_7 haloalkylaminocarbonyl, C_3-C_9 dihaloalkylaminocarbonyl, hydroxy, –NH_2, –CN or –NO_2; or Q^2;

each R^8 is independently halogen, C_1-C_6 alkoxy, C_1-C_6 haloalkoxy, C_1-C_6 alkylthio, C_1-C_6 haloalkylthio, C_1-C_6 alkylsulfinyl, C_1-C_6 haloalkylsulfinyl, C_1-C_6 alkylsulfonyl, C_1-C_6 haloalkylsulfonyl, C_1-C_6 alkylamino, C_2-C_6 dialkylamino, C_2-C_4 alkoxycarbonyl, –CN or –NO_2;

each R^9 is independently halogen, C_1-C_6 alkyl, C_1-C_6 haloalkyl, C_3-C_6 cycloalkyl, C_3-C_6 halocycloalkyl, C_1-C_6 alkoxy, C_1-C_6 haloalkoxy, C_1-C_6 alkylthio, C_1-C_6 haloalkylthio, C_1-C_6 alkylsulfinyl, C_1-C_6 haloalkylsulfinyl, C_1 -C_6 alkylsulfonyl, C_1-C_6 haloalkylsulfonyl, C_1-C_6 alkylamino, C_2-C_6 dialkylamino, –CN, –NO_2, phenyl or pyridinyl;

R^{l0} is H; or C_1-C_6 alkyl, C_2-C_6 alkenyl, C_2-C_6 alkynyl, C_3-C_6 cycloalkyl, C_4-C_7 alkylcycloalkyl or C_4-C_7 cycloalkylalkyl, each optionally substituted with one of more halogen;

R^{11} is H, C_1-C_6 alkyl, C_2-C_6 alkenyl, C_2-C_6 alkynyl, C_3-C_6 cycloalkyl, C_4-C_7 alkylcycloalkyl, C_4-C_7 cycloalkylalkyl, C_2-C_7 alkylcarbonyl or C_2-C_7 alkoxycarbonyl;

R^{12} is H; Q^3; or C_1-C_6 alkyl, C_2-C_6 alkenyl, C_2-C_6 alkynyl, C_3-C_6 cycloalkyl, C_4-C_7 alkylcycloalkyl or C_4-C_7 cycloalkylalkyl, each optionally substituted with one or more substituents independently selected from R^7; or

R^{11} and R^{12} are taken together with the nitrogen to which they are attached to form a ring containing 2 to 6 atoms of carbon and optionally one additional atom selected from the group consisting of N, S and O, said ring optionally substituted with 1 to 4 substituents independently selected from the group consisting of C_1-C_2 alkyl, halogen, –CN, $–NO_2$ and C_1-C_2 alkoxy;

Q^1 is a phenyl ring, a 5- or 6-membered heterocyclic ring, or an 8-, 9- or 10-membered fused bicyclic ring system optionally containing one to three heteroatoms wherein said one to three heteroatoms comprise up to 1 O, up to 1 S and up to 3 N, each ring or ring system optionally substituted with one or more substituents independently selected from R^8;

each Q^2 is independently a phenyl ring or a 5- or 6-membered heterocyclic ring, each ring optionally substituted with one or more substituents independently selected from R^9;

Q^3 is a phenyl ring or a 5- or 6-membered heterocyclic ring, each ring optionally substituted with one or more substituents independently selected from R^9; and n is 0, 1 or 2; and

(ii) at least one systemically-acting active agent, wherein the systemically active agent is one or more avermectins, one or more milbemycins, one or more spinosyn compounds, one or more spinosoid compounds, one or more benzimidazoles, levamisole, pyrantel, morantel, praziquantel, closantel, clorsulon, one or more amino acetonitrile active agents, one or more depsipeptides, one or more insect growth regulators, one or more neonicotinoids, one or more arylpyrazoles or one or more aryloazol-2-yl cyanoethylamino active agents, or a combination of different agents thereof; and

b) a pharmaceutically acceptable carrier, wherein the pharmaceutically acceptable carrier comprises:

i) a surfactant which is a polyethylene glycol stearate or a polyethylene glycol hydroxystearate;

ii) one or more fillers;

iii) one or more binders; and

iv) at least one humectant, solvent or lubricant, or a combination thereof; wherein said fillers, binders, humectant, solvent and lubricant are different compounds.

2. The soft chewable veterinary composition of claim 1, wherein:

W is O;

R^4 is H or C_1-C_6 alkyl;

R^5 is $–CH_2C(O)NHCH_2CF_3$;

each of A^1, A^2, A^3, A^4, A^5 and A^6 is CH;

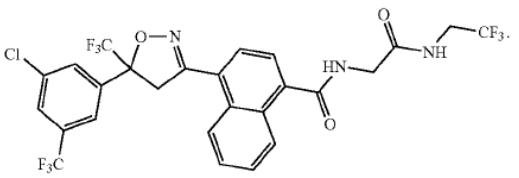
R^1 is C_1-C_6 alkyl each optionally substituted with one or more substituents independently selected from R^6;

R^6 is halogen or C_1-C_6 alkyl; and

B^1, B^2, and B^3 are independently CH, C-halogen, C–C_1-C_6 alkyl, C–C_1-C_6 haloalkyl, or C–C_1-C_6 alkoxy.

3. The soft chewable veterinary composition of claim 1, wherein the compound of formula (I) is Compound A:

(Compound A)



4. The soft chewable veterinary composition of claim 1, wherein the carrier further comprises at least one flavoring agent, optionally an antioxidant, and optionally a preservative.

5. The soft chewable veterinary composition of claim 1, wherein the one or more fillers are soy protein fines, corn starch, or a mixture thereof.

6. The soft chewable veterinary composition of claim 1, wherein the binder is polyvinylpyrrolidone, a co-polymer of vinyl acetate and vinyl pyrrolidone or a polyethylene glycol, or a combination thereof

7. The soft chewable veterinary composition of claim 1, wherein the composition comprises a solvent, and wherein the solvent is a liquid polyethylene glycol or a caprylic/capric triglyceride, or a combination thereof.

8. The soft chewable veterinary composition of claim 1, wherein the surfactant is a polyethylene glycol hydroxystearate.

9. The soft chewable veterinary composition of claim 1, wherein the composition comprises a humectant and wherein the humectant is glycerin or propylene glycol.

10. The soft chewable veterinary composition of claim 4, wherein the flavoring agent is an artificial meat or artificial beef flavor.

11. The soft chewable veterinary composition of claim 4, wherein

a) the filler is corn starch, pre-gelatinized corn starch, corn gluten meal or soy protein fines, or a combination of different fillers thereof;
b) the solvent is liquid polyethylene glycols, propylene glycol, propylene carbonate, caprylic/capric triglycerides, caprylic/capric/linoleic triglycerides, caprylic/capric/succinic triglycerides, propylene glycol dicaprylate/dicaprate, glycerol caprylate/caprate or polyglycolized glycerides, or a combination of different solvents thereof;
c) the binder is polyvinylpyrrolidone, polyethylene glycols, co-polymers of vinyl acetate and vinylpyrroli-done, potato starch or corn starch, or a combination of different binders thereof;
d) the humectant is glycerol, propylene glycol, cetyl alcohol, glycerin monostearate or polyethylene glycols, or a combination of different humectants thereof; and
e) the flavoring agent is a natural or artificial beef or meat flavor.

12. The soft chewable veterinary composition of claim 11, wherein the active agent of formula (I) is present at a concentration of about 1% to about 20% by weight.

13. The soft chewable veterinary composition of claim 12, wherein:

a) the filler is a combination of corn starch and soy protein fines and is present at a concentration of about 30% to about 60% (w/w);
b) the solvent is a mixture of liquid polyethylene glycol and caprylic/capric triglycerides and is present at a concentration of about 5% to about 20% (w/w);
c) the binder is polyethylene glycol or polyvinylpyrrolidone, or a combination thereof, and is present at a concentration of about 5% to about 15% (w/w);
d) the humectant is glycerin and is present at a concentration of about 5% to about 20% (W/W);
e) the surfactant is a polyethylene glycol 12-hydroxystearate and is present at a concentration of about 1% to about 5% (w/w).

14. The soft chewable veterinary composition of claim 12, wherein the active agent of Formula (I) is present at a concentration of about 1% to about 5% by weight.

15. The soft chewable veterinary composition of claim 12, wherein the active agent of Formula (I) is present at a concentration of about 10% to about 20% by weight.

16. The soft chewable veterinary composition of claim 1, wherein the pharmaceutically acceptable carrier comprises a lubricant.

17. The soft chewable veterinary composition of claim 1, wherein the surfactant is selected from the group consisting of polyoxyl 8 stearate, polyoxyl 40 stearate, polyethylene glycol 12-hydroxystearate and polyethylene glycol 15 12-hydroxystearate.

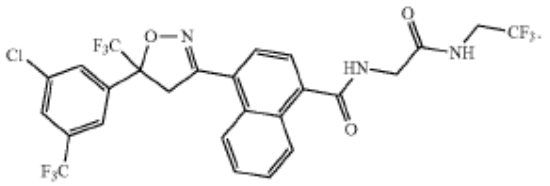
18. The soft chewable veterinary composition of claim 17, wherein the surfactant is polyethylene glycol 12-hydroxystearate.

19. The soft chewable veterinary composition of claim 18, wherein the surfactant is polyethylene glycol 15 12-hydroxystearate.

20. The soft chewable veterinary composition of claim 13, wherein the surfactant is polyethylene glycol 15 12-hydroxystearate.

21. The composition of claim 13, wherein the isoxazoline active agent of formula (I) is Compound A:

(Compound A)



22. The composition of claim 11, wherein the filler is corn starch or soy protein fines, or a combination thereof.

23. The composition of claim 11, wherein the solvent is liquid polyethylene glycols or caprylic/capric triglycerides, or a combination thereof.

24. The composition of claim 11, wherein the binder is polyvinylpyrrolidone, a co-polymer of vinyl acetate and vinylpyrrolidone or a polyethylene glycol, or a combination thereof.

25. The composition of claim 11, wherein the humectant is glycerol, propylene glycol, or a combination thereof.

26. The composition of claim 11, wherein:

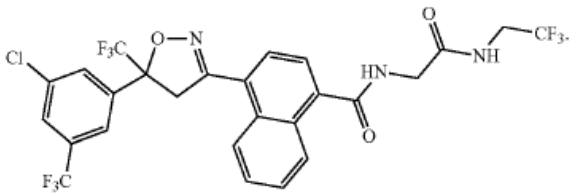
a) the filler is corn starch or soy protein fines, or a combination thereof;
b) the binder is polyvinylpyrrolidone, a co-polymer of vinyl acetate and vinylpyrrolidone or polyethylene glycol, or a combination thereof; and
c) humectant is glycerol, propylene glycol, or a combination thereof.

27. The composition of claim 26, wherein:

a) the filler is a combination of corn starch and soy protein fines;
b) the solvent is liquid polyethylene glycols or caprylic/ capric triglycerides, or a combination thereof;
c) the binder is polyvinylpyrrolidone or polyethylene glycol; and
d) the humectant is glycerol.

28. The composition of claim 27, wherein the isoxazoline active agent of formula (I) is Compound A:

(Compound A)

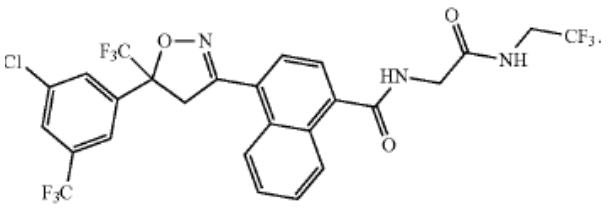


29. The composition of claim 13, wherein:

a) the filler is present at a concentration of about 35% to about 55% (w/w);
b) the solvent is present at a concentration of about 5% to about 15% (w/w);
c) the binder is present at a concentration of about 5% to about 10% (w/w); and
d) the humectant is present at a concentration of about 5% to about 15% (w/w).

30. The composition of claim 29, wherein the isoxazoline active agent of formula (I) is Compound A:

(Compound A)



31. The soft chewable veterinary composition of claim 1,
wherein the composition comprises one or more avermectins, one or more milbemycins, one or more depsipeptides, one or more spinosyn compounds, one or more spinosoid compounds, pyrantel, praziquantel, one or more insect growth regulators, or a combination of different agents thereof.

32. The soft chewable veterinary composition of claim 31, wherein the composition comprises one or more avermectins or one or more milbemycins, or a combination thereof.

33. The soft chewable veterinary composition of claim 32, wherein the one or more avermectins or one or more milbemycins is eprinomectin, ivermectin, selamectin, abamectin, emamectin, latidectin, lepimectin, milbemectin, milbemycin D, milbemycin oxime or moxidectin, or a combination thereof.

34. The soft chewable veterinary composition of claim 33, wherein the one or more avermectins or one or more milbemycins is eprinomectin, ivermectin, milbemycin oxime or moxidectin, or a combination thereof.

35. The soft chewable veterinary composition of claim 34, wherein the one or more milbemycins is milbemycin oxime or moxidectin.

36. The soft chewable veterinary composition of claim 31, wherein the composition comprises praziquantel.

37. The soft chewable veterinary composition of claim 31, wherein the composition comprises an avermectin and/or a milbemycin in combination with praziquantel.

38. The soft chewable veterinary composition of claim 37, wherein the avermectin and/or milbemycin is eprinomectin, ivermectin, selamectin, abamectin, emamectin, latidectin, lepimectin, milbemectin, milbemycin D, milbemycin oxime, moxidectin, or a combination thereof

39. The soft chewable veterinary composition of claim 38, wherein the avermectin or milbemycin active agent is moxidectin.

40. The soft chewable veterinary composition of claim 31, wherein the composition comprises a depsipeptide active agent, and wherein the depsipeptide active agent is emodepside.

41. A soft chewable veterinary composition selected from the group consisting of:

Ingredients	Function	% (w/w)
Compound A	Active	1.89
Milbemycin oxime	Active	0.375
Soy Protein Fines	Filler	20.0 (QS)
Corn Starch	Filler	24.7
beef flavor	Flavoring	20.2
Povidone K-30	Binder	2.7
PEG 400	Solvent	7.1
PEG 4000	Binder	6.3
polyethylene glycol 12-hydroxystearate	Surfactant	3.0
Glycerin	Humectant	10.1
Caprylic/capric triglyceride	Solvent/Lubricant	3.1
Potassium Sorbate	Preservative	0.3
butylated hydroxytoluene (BHT)	Antioxidant	0.14,

Ingredients	Function	% (w/w)
Compound A	Active	1.875
Milbemycin oxime	Active	0.375
Soy Protein Fines	Filler	19.4 (QS)
Corn Starch	Filler	25.0
beef flavor	Flavoring	20.0
Povidone K-30	Binder	2.75
PEG 400	Solvent	7.1
PEG 4000	Binder	6.35
polyethylene glycol 12-hydroxystearate	Surfactant	3.1
Glycerin	Humectant	10.0
Caprylic/capric triglyceride	Solvent/Lubricant	3.15
Potassium Sorbate	Preservative	0.3
BHT	Antioxidant	0.14
Citric Acid Monohydrate	pH modifier	0.50,

Ingredients	Function	% (w/w)
Compound A	Active	1.875
Milbemycin oxime	Active	0.375
Corn starch	Filler	20.0
Soy protein fines	Filler	28.3 (QS)
beef flavor	Flavoring	25.0
Povidone K-30	Binder	6.0
PEG 400	Solvent	12.0
polyethylene glycol 12-hydroxystearate	Surfactant	3.0
Caprylic/capric triglyceride	Solvent/lubricant	3.0
Potassium sorbate	Preservative	0.3
BHT	Antioxidant	0.14,

Ingredients	Function	% (w/w)
Moxidectin	Active	0.03
Milbemycin oxime	Active	0.375
Compound A	Active	1.875
Soy protein fines	Filler	23 (QS)
Starch	Filler	21
beef flavor	Flavoring	20
Povidone K-30	Binder	2.75
PEG 400	Solvent	7.1
polyethylene glycol 12-hydroxystearate	Surfactant	3.1
PEG 4000	Binder	6.35
Caprylic/capric triglyceride	Solvent/lubricant	3.15
Glycerin	Humectant	10.0
Potassium sorbate	Preservative	0.3
BHT	Antioxidant	0.14
Citric acid	Preservative	0.5,

Ingredients	Function	% (w/w)
Ivermectin	Active	0.015
Milbemycin oxime	Active	0.375
Compound A	Active	1.875
Soy protein fines	Filler	19.3 (QS)
Corn starch	Filler	25
beef flavor	Flavoring	20
Povidone K-30	Binder	2.75
PEG 400	Solvent	7.1
polyethylene glycol 12-hydroxystearate	Surfactant	3.1
PEG 4000	Binder	6.35
Caprylic/capric triglyceride	Solvent/lubricant	3.15
Glycerin	Humectant	10.0
Potassium sorbate	Preservative	0.3
BHT	Antioxidant	0.14
Citric acid and	Preservative	0.5

Ingredients	Function	% (w/w)
Moxidectin	Active	0.03
Milbemycin oxime	Active	0.375
Compound A	Active	1.875
Soy protein fines	Filler	19.3 (QS)
Corn starch	Filler	25
beef flavor	Flavoring	20
Povidone K-30	Binder	2.75
PEG 400	Solvent	7.1
polyethylene glycol 12-hydroxystearate	Surfactant	3.1
PEG 4000	Binder	6.35
Caprylic/capric triglyceride	Solvent/lubricant	3.15
Glycerin	Humectant	10.0
Potassium sorbate	Preservative	0.3
BHT	Antioxidant	0.14
Citric acid	Preservative	0.5,