

## Drug Appendices for 2024

Adapted for NATRC, with permission, from AERC

*Note: These are similar, but not identical to, those of AERC*

## Appendix A. Prohibited Substances

Acebutol	Antipyrine	Bromazepam	Celecoxib	Cocaine
Acecarbromal	Apazone	Bromfenac	Cephalosporins	Codeine
Acenocoumarol	Apomorphine	Bromhexine	Cetirizine	Colchicine
Acepromazine	Aprindine	Bromisovalum	Chamomile	Comfrey
Acetaminophen	Aprobarbital	Bromocriptine	Chloral betaine	Conorphone
Acetanilid	Arecoline	Bromodiphenhydramine	Chloral hydrate	Corticaine
Acetazolamide	Arnica	Bromperidol	Chloraldehyde	Cortisone
Acetophenazine	Arsenic	Brompheniramine	Chloralose	Cromolyn
Acetophenetidin	Articaine	Brotizolam	Chlorbutanol	Crotetamide
Acetylpromazine	Ashwaghandha	Budesonide	Chlordiazepoxide	Cyamemazine
Acetylsalicylic acid	Atenolol	Bufotenine	Chlorhexidol	Cyclandelate
Adinazolam	Atomoxetine	Bumetanide	Chlormerodrin	Cyclizine
Albuterol	Atracurium	Bupivacaine	Chlormezanone	Cyclobarbitol
Alclofenac	Atropine	Buprenorphine	Chloroform	Cyclobenzaprine
Aclomethasone	Azacylonol	Bupropion	Chlorophenesin	Cyclomethylcaine
Alcuronium	Azaperone	Buspirone	Chloroprocaine	Cyclothiazide
Aldosterone	Bacitracin	Butabarbital	Chloroquine	Cycrimine
Alfentanil	Baclofen	Butacaine	Chlorothiazide	Cyproheptadine
Almotriptan	Barbital	Butalbital	Chlorpheniramine	Danazol
Alphaprodine	Beclomethasone	Butamben	Chlorproethazine	Dantrolene
Alpidem	Belladonna	Butanilcaine	Chlorpromazine	Darbepoetin
Alprazolam	Bemegrade	Butaperazine	Chlorprothixene	Decamethonium
Alprenolol	Benazeprilat	Butoctamide	Chlorthalidone	Dembroxol (Dembrexine)
Althesin	Benazepril	Butorphanol	Chlorzoxazone	Demethylpyrilamine
Ambenonium	Bendroflumethiazide	Butoxycaine	Cilostazol	Demoxepam
Ambroxol	Benoxaprofen	N-butylscopolammonium bromide	Cimetrol	Deoxycorticosterone
Amcinonide	Benoxinate	Caffeine	Cimetidine	Derecoxib
Amiloride	Benperidol	Calusterone	Cinchocaine	Desipramine
Aminocaproic acid	Benzazepam	Camazepam	Citalopram	Desonite
Amiodarone	Benzactizine	Camphor	Clemastine	Desoximetasone
Aminoglycosides	Benzocaine	Candesartan	Clenbuterol	Detomidine
2-Aminoheptane	Benzocetamine	Capsaicin	Clibucaine	Devil's Claw
Aminophylline	Benzodiazepines	Captodiamide	Clidinium	Dexamethasone
Aminopyrine	Benzphetamine	Captopril	Clobazam	Dextromethorphan
Amisometradine	Benzthiazide	Carazolol	Clobetasol	Dextromoramide
Amisulpride	Benztropine	Carbachol	Clocapramine	Dextropropoxyphene
Amitraz	Benzylpiperazine	Carbamezapine	Clocortolone	Dezocine
Amitriptyline	Bepridil	Carbidopa + levodopa	Clodronate	Diamorphine
Amlodipine	Betamethasone	Carbinoxamine	Clofenamide	Diazepam
Amobarbital	Betaxolol	Carbromol	Clomethiazole	Diazoxide
Amoxapine	Bethanechol	Carfentanil	Clomipramine	Dibucaine
Amperozide	Bethanidine	Carisoprodol	Clonazepam	Dichloralphenazone
Amphetamines	Biperiden	Carphenazine	Clonidine	Dichlorphenamide
Amrinone	Biriperone	Carpipramine	Clorazepate	Diclofenac
Amylnitrite	Bisoprolol	Carprofen	Clormecaine	Dicumarol
Anileridine	Bitolterol	Carteolol	Clothiapine	Diethylpropion
Anilopam	Boldenone	Carticaine	Clotiazepam	Diethylthiambutene
Anisindione	Bretylum	Carvedilol	Clozazolam	Diflorasone
Anisotropine	Brimonidine	Cathinone	Clozapine	Diflucortolone

## Appendix A. Prohibited Substances

Diflunisal	Ethamivan	Fluoresone	Hydralazine	Lithium
Digitoxin	Ethchlorvynol	Fluorometholone	Hydrochlorthiazide	Lobeline
Digoxin	Ethinamate	Fluoroquinolones:	Hydrocodone***	Lofentanil
Dihydrocodeine	Ethoheptazine	enrofloxacin	Hydrocortisone	Loflazepate
Dihydroergotamine	Ethopropazine	ciprofloxacin	Hydroflumethiazide	Loperamide
Dilorazepam	Ethosuximide	danofloxacin	Hydromorphone	Loprazolam
Diltiazem	Ethotoin	Fluoxetine	Hydroxyamphetamine	Loratidine
Dimeflin	Ethoxzolamide	Fluoxymesterone	Hydroxyzine	Lorazepam
Dimethisoquin	Ethyl Alcohol	Flupenthixol	Hyoscine	Lormetazepam
Dimethylglycine (DMG)	Ethylaminobenzoate	Fluphenazine	Ibomal	Losartan
Dimethylsulfoxide (DMSO)	Ethylestrenol	Flupirtine	Ibuprofen	Loxapine
Diphenadione	Ethylisobutrazine	Fluprednisolone	Ibutilide	LSD
Diphenhydramine	Ethylmorphine	Flurandrenolide	Iloprost	Mabuterol
Diphenoxylate	Ethylnorepinephrine	Flurazepam	Imipramine	Macrolide antibiotics:
Dipremorphine	Etidocaine	Flurbiprofen	Indomethacin	erythromycin
Dipyridamole	Etifoxin	Fluspirilene	Infliximab	azithromycin
Dipyrene	Etizolam	Fluticasone	Ipratropium	clarithromycin
Disopyramide	Etodolac	Flutoprazepam	Irbesarten	Magnesium sulfate
Divalproex	Etodroxizine	Fluvoxamine	Isapirone	Maprotiline
Dixyrazine	Etomidate	Formoterol	Isocarboxazid	Mazindol
Dobutamine	Etorphine HCl	Fosinopril (Fosinoprilat)	Isoetharine	Mebutamate
Dopamine	Eugenol	Fosphenytoin	Isoflupredone	Mecamylamine
Donepezil	Famotidine	Furosemide	Isomethadone	Meclizine
Doxacurium	Felbamate	Gabapentin	Isometheptene	Meclofenamic acid
Doxapram	Felodipine	Galantamine	Isopropamide	Meclofenoxate
Doxazosin	Fenarbamate	Gallamine	Isoproterenol	Medazepam
Doxefazepam	Fenbufen	Gamma aminobutyric acid (GABA)	Isosorbide dinitrate	Medetomidine
Doxepin	Fenclozic acid	Gamma-oryzanol*	Isoxicam	Medrysone
Doxylamine	Fenfluramine	Gepirone	Isoxsuprine	Mefenamic acid
Dromostanolone	Fenoldopam	Glaucine	Isradipine	Meloxicam
Droperidol	Fenopropfen	Glutethimide	Itraconazole	Melperone
Dyclonine	Fenoterol	Glycopyrrrolate	Kava kava	Memantine
Dyphylline	Fenspiride	Griseofulvin	Ketamine	Menthol
Edrophonium	Fentanyl	Guaifenesin**	Ketazolam	Meparfynol
Eletripan	Fentiazac	Guanadrel	Ketoconazole	Mepazine
Eltenac	Fexofenadine	Guanethidine	Ketoprofen	Mepenzolate
Enalapril (enaloprit)	Firocoxib	Guanabenz	Ketorolac	Meperidine
Enciprazine	Flecainide	Halazepam	Labetalol	Mephenesin
Endorphins	Floctafenine	Halcinonide	Lamotrigine	Mephenoxalone
Enkephalins	Fluanisone	Halobetasol	Lansoprazol	Mephentermine
Ephedrine	Flucinolone	Haloperidol	Laurel	Mephentoin
Epinephrine	Fludiazepam	Haloxazolam	Lavender	Mephobarbital
Epoetin alfa	Fludrocortisone	Hemoglobin glutamers	Lemonalm	Mepivacaine
Ergonovine	Flufenamic acid	Heparin	Lenperone	Meprobamate
Ergotamine	Flumethasone	Heroin	Leopard's Bane	Meralluride
Erthrityl.tetranitrate	Flumethiazide	Hexafluorenum	Letosteine	Merbapfen
Erythropoietin (EPO)	Flunarizine	Hexobarbital	Levallorphan	Mercaptomerin
Esmolol	Flunisolid	Hexocyclium	Levobunolol	Mercumalilin
Esomeprazole	Flunitrazepam	Hexylcaine	Levomethorphan	Mersalyl
Estazolam	Flunixin	Homatropine	Levorphanol	Mesalamine
Etamiphylline	Fluocinolone	Homophenazine	Levothyroxine	Mesoridazine
Etanercept	Fluocinonide	Hops	Lidocaine	Metaclozepam
Ethacrynic acid	Fluopromazine	Holdenine	Lisinopril	Metaproterenol

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Metaraminol	Modafinil	Oxcarbazepine	Phenindione	Propanidid
Metaxalone	Moexipril	Oxprenolol	Phenmetrazine	Propantheline
Metazocine	Mofebutazone	Oxybutynin	Phenobarbital	Proparacaine
Methachloline	Molindone	Oxycodone	Phenoxybenzamine	Propentophylline
Methadone	Mometasone	Oxymetazoline	Phenprocoumon	Propiomazine
Methamphetamine	Montelukast	Oxymetholone	Phensuximide	Propionylpromazine
Methandrio	Moperone	Oxymorphone	Phentermine	Propiram
Methandrostenolone	Morphine	Oxyperitine	Phentolamine	Propofol
Methantheline	Mosaprimine	Oxyphenbutazone	Phenylbutazone	Propoxycaine
Methapyrilene	Muscarine	Oxyphencyclimine	Phenylephrine	Propoxyphene
Methaqualone	Nabumetone	Oxyphenonium	Phenylpropanolamine	Propranolol
Metharbital	Nadolol	Pancuronium	Phenytoin	Propylhexedrine
Methazolamide	Naepaine	Pantoprazole	Physostigmine	Prothipendyl
Methcathinone	Nalbuphine	Papaverine	Picrotoxin	Protokylol
Methdilazine	Nalmefene	Paraldehyde	Piminodine	Protriptyline
Methixene	Nalorphine	Paramethadione	Pimozide	Proxibarbital
Methocarbamol	Naloxone	Paramethasone	Pinazepam	Pseudoephedrine
Methohexital	Naltrexone	Pargyline	Pindolol	Pyridostigmine
Methotrexate	Nandrolone	Paroxetine	Pipamperone	Pyrilamine
Methotrimeprazine	Naphazoline	Passion Flower	Pipecuronium	Pyrimethamine
Methoxamine	Naproxen	Pemoline	Pipequaline	Quazipam
Methoxyphenamine	Naratriptan	Penicillins:	Piperacetazine	Quetiapine
Methscopolamine	Nedocromil	procaine penicillin G	Piperocaine	Quinapril (Quinaprilat)
Methsuximide	Nefazodone	sodium penicilin G	Pipotiazine	Quinidine
Methylatropine	Nefopam	potassium penicillin G	Pipradrol	Rabeprazole
Methylchlorthiazide	Neostigmine	ampicillin	Piquindone	Racemethorphan
Methyldopa	Nicardipine	Penbutolol	Pirbuterol	Racemorphan
Methylergonovine	Nifedipine	Penfluridol	Pirenperone	Raclopride
Methylphenidate	Niflumic acid	Pentaerythritol tetranitrate	Pirenzapine	Ractopamine
Methylprednisolone	Nightshade	Pentazocine	Piretanide	Ramipril (Ramiprilat)
Methylsulfonylmethane	Nikethamide	Pentobarbital	Piritramide	Ranitidine
Methyltestosterone	Nimesulide	Pentoxifylline	Piroxicam	Rauwolfia
Methyprylon	Nitazoxanide	Pentylene tetrazol	Polyethylene glycol	RedPoppy
Methysergide	Nitrazepam	Perazine	PolymixinB	Remifentanil
Metiamide	Nimodipine	Perfluorodecolin	Polythiazide	Remoxipride
Metoclopramide	Nitrazepam	Perfluorodecahydronophthalene	Ponazuril	Reserpine
Metocurine	Nitrofurazone	Perfluorooctylbromid	Pramoxine	Rifampin
Metolazone	Nitroglycerin	Perfluorotripropylamin	Prazepam	Rilmazafone
Metomidate	Nizatidine	Perfluorocarbons	Prazosin	Risperidone
Metopon	Norepinephrine	Periciazine	Prednisolone	Ritanserlin
Metoprolol	Norethandrone	Perindopril	Prednisone	Ritodrine
Metronidazole	Nortestosterone	Perlapipe	Prethcamide	Rivastigmine
Mexazolam	Nortriptyline	Perphenazine	Prilocaine	RizatRIPTAN
Mexilitine	Nylidrine	Phenacemide	Primidone	Rocuronium
Mibefradil	Olanzapine	Phenaglycodol	Probenecid	Rofecoxib
Midazolam	Olsesartan	Phenazocine	Procainamide	Romifidine
Midodrine	Olsalazine	Phencyclidin (PCP)	Procaine	Ropivacaine
Milenperone	Omeprazole	Phendimetrazine	Procaterol	Salicylamide
Milrinone	Orphenadrine	Phenelzine	Prochlorperazine	Salicylate
Minoxidil	Oxandrolone	Phenibut (B-phenyl gamma aminobutyric acid)	Procyclidine	Salmeterol
Mirtazepine	Oxapropin	Phenicol:	Promazine	Scopolamine
Misoprostel	Oxazepam	chloramphenicol	Promethazine	Secobarbital
Mivacurium	Oxazolam	florfenicol	Propafenone	Selegiline

## Appendix A. Prohibited Substances

Sertraline	Thiamine	Tyrosine	
Sibutramine	Thiamylal	Urethane	
Sildenafil	Thiethylperazine	Valerian	
Skullcap	Thiopental	Valnoctamide	
Snake Venoms	Thiopropazate	Valsartan	
Sodium cacodylate	Thiopropazine	Vardenafil	
Somatropin	Thioridazine	Vedaprofen	
Somatrem	Thiosalicylate	Venlafaxine	
Sotalol	Thiothixene	Veralipride	
Spiclomazine	Thiphenamil	Verapamil	
Spiperone	Tiapride	Vercuronium	
Spirapril (Spiraprilat)	Tiaprofenic acid	Vervain	
Spironalactone	Tiletamine	Viloxazine	
Stanozolol	Tiludronate	Vinbarbital	
Strychnine	Timiperone	Vinylbital	
Succinylcholine	Timolol	Warfarin	
Sucralfate	Tocainide	Xylazine	
Sufentanil	Tofisopam	Xylocaine	
Sulfasalazine	Tolazoline	Yohimbine	
Sulfonamides, potentiated:	Tolmetin	Yucca****	
sulfamethoxazole/	Topirimate	Zafirlukast	
sulfadiazine +	Torseamide	Zaleplon	
trimethoprim	Tramadol	Zeranol	
Sulfondiethylmethane	Trandolapril (trandolaprit)	Zileuton	
Sulfonmethane	Tarka	Ziprasidone	
Sulforidazine	Tranexamic acid	Zolazepam	
Sulindac	Tranylcypromine	Zolmitriptan	
Sulpiride	Trazodone	Zolpidem	
Sultopride	Trenbolone	Zomepirac	
Sumatriptan	Tretoquinol	Zonisamide	
Tadalafil	Triamcinolone	Zopiclone	
Talbutal	Triamterene	Zotepine	
Tandospirone	Triazolam	Zuclopenthixol	
Telmisartin	Tribromethanol	Zylokene	
Temazepam	Trichlormethiazide		
Tenoxicam	Trichloroethanol		
Terazosin	Trichloethylene		
Terbutaline	Triclofos		
Terfenadine	Tridihexethyl	* Gamma oryzanol: other than what naturally occurs in	equine feeds such as
Testolactone	Trifluomeprazine	rice, rice bran, and bran oils	
Testosterone	Trifluoperazine		
Tetrabenazine	Trifluperidol	** Guaifenesin: glycerol guaiacolate	
Tetracaine	Triflupromazine		
Tetracyclines:	Trihexylphenidyl	*** Hydrocodone: dihydrocodienone	
oxytetracycline	Trimeprazine		
doxycycline	Trimethadione	**** Yucca: other than as a feed additive for the purpose of	and at the levels
Tetrahydrozoline	Trimethaphan	of ammonia reduction and intestinal health	
Tetrazepam	Trimipramine		
THC	Tripelennamine		
Thebaine	Tripolidine		
Theobromine	Tropicamide		
Theophylline	Tubocurarine (Curare)		
Thialbarbital	Tybamate		

## Appendix B. Categories of Prohibited Substances

1. Anti-inflammatory drugs (steroidal and/or non-steroidal) or other substances that have similar pharmacological actions
2. Antipsychotic, anti-seizure, and antihypertensive substances
3. Antidepressants such as selective serotonin reuptake inhibitors, monoamine oxidase inhibitors and tricyclic antidepressants
4. Tranquilizers and sedatives including benzodiazepines and barbiturates
5. Antihistamines
6. Narcotics and opioid analgesics
7. Amphetamines and other central nervous system stimulants including cocaine and related psychotic drugs
8. Beta-blockers
9. Diuretics
10. Anabolic steroids and growth promoters
11. Peptides and genetically recombinant substances such as erythropoietin, or growth hormone
12. Hypersensitizing or desensitizing agents
13. Hormonal products (natural or synthesized) including progesterone and similar acting progestagens such as altrenogest (Regumate) used in mares to control estrus cycles
14. Pharmacological substances designed and marketed primarily for human use or use in other species and for which alternative and generally accepted products are available for use in horses
15. Oxygen carriers
16. Antibiotics
17. Antiprotozoal medications
18. Antifungal medications
19. Proton pump inhibitors and H2 receptor antagonists
20. Masking agents
21. Substances designed, marketed, and/or administered to affect the behavior of an equine in a calming (tranquilizing) or energizing (stimulating) manner. This is to include herbal products.
22. Local anesthetics
23. Sympathomimetic cardiac stimulants
24. Respiratory stimulants
25. Bronchodilators and products used for the treatment of recurrent airway disease, mucolytics and cough suppressants
26. Muscle relaxants
27. Anticoagulants
28. Anticholinergic substances
29. Laxatives
30. Topical agents, including ophthalmic, otic, dermal and wound ointments, and liniments
31. Topically applied isopropyl alcohol.
32. Any substance administered during competition by nasogastric tube or syringe/needle.
33. Acid neutralizers (e.g. Maalox, Neighlox).
34. Magnesium or thiamine for the purpose of and the levels of providing a calming/ tranquilizing effect.
35. Bisphosphonates
36. CBD Products
37. Shock-absorbing materials (e.g. pads, polymer gels, packing material) containing prohibited substances including anti-inflammatory or hardening agents may not be used during competition.

## Appendix C. Allowed Substances

1. Vitamins
2. Minerals
3. Ice and ice water administered orally and/or topically
4. Anthelmintics (dewormers)
5. Probiotics
6. The following chondroprotective agents: glucosamine, chondroitin sulfate, polysulfated glycosaminoglycan, hyaluronate. Not to be administered by needle/syringe while in competition (see Appendix B item 32).
7. Vaccines and immunostimulants  
There is insufficient information available to advise as to the timing of administration close to the time of competition.
8. Electrolytes, including buffered electrolytes, administered orally for the purpose of electrolyte supplementation.
9. Magnesium sulfate administered for the purpose of electrolyte supplementation.
10. Pergolide mesylate
11. Sunscreen labeled products on the head or hairless areas

## Appendix D. Threshold Levels

Urinary thresholds refer to the parent drug and/or metabolite. (S = stallions; G = geldings; M = mares)

Acepromazine	25ng/ml	urine	Dipyrene	1,000ng/ml	plasma	Oxyphenbutazone	1,000ng/ml	plasma
Albuterol	1ng/ml	urine	Estradiol	45ng/ml	urine	Pentazocine	50ng/ml	urine
Arsenic	200ng/ml	urine	Firocoxib	20ng/ml	plasma	Phenylbutazone	1,000ng/ml	plasma
Atropine	10ng/ml	urine	Flumethasone	10ng/ml	urine	Prednisolone	1,000ng/ml	urine
Benzocaine	50ng/ml	urine	Flunixin (Banamine)	50ng/ml	plasma	Prednisone	100ng/ml	urine
Boldenone (S)	15ng/ml	urine	*Furosemide	100ng/ml	plasma	Procaine	50ng/ml	urine
BZE (Benzoylcegonine)	50ng/ml	urine	Hydrocortisone	1,000ng/ml	urine	Promazine	25ng/ml	urine
Betamethasone	60ng/ml	urine	Imipramine	20ng/ml	plasma	Pyrilamine	50ng/ml	urine
Bupivacaine	5ng/ml	urine	Isoflupredone	60ng/ml	urine	Salicylates	750,000ng/ml	urine
Butorphanol	10ng/ml	urine	Isoxsuprine	1,000ng/ml	urine	Salicylic Acid	625,000ng/ml	urine
Caffeine	100ng/ml	plasma	Ketoprofen	20ng/ml	plasma		5,400ng/ml	plasma
	300ng/ml	urine	Lidocaine	50ng/ml	urine	Terbutaline	10ng/ml	urine
Clenbuterol	25pg/ml	plasma	Meclofenamic Acid	1,000ng/ml	plasma	Testosterone		
Dantrolene	100ng/ml	plasma	Mephensin	200ng/ml	plasma	(epitestosterone) (G)	20ng/ml	urine
Dexamethasone	60ng/ml	urine	Mepivacaine	10ng/ml	urine	Testosterone (M)	55ng/ml	urine
Diclofenac sodium	5ng/ml	plasma	Methocarbamol	1,000ng/ml	plasma	Tetramisole	80ng/ml	plasma
	100ng/ml	urine	Methoxytramaine	4,000ng/ml	urine	Theobromine	2,000ng/ml	urine
Dimethylsulfoxide (DMSO)			Methylprednisolone	1,000ng/ml	urine			
	15,000ng/ml	urine	Morphine	50ng/ml	urine			
	1,000ng/ml	plasma	Naproxen	5,000ng/ml	plasma			

\*The threshold for furosemide applies only if the urine specific gravity is less than 1.010.

## Appendix E. Known Detection Times for Substances Used Therapeutically in the Horse

	Therapeutic Indication	Typical Dose/ Route* for 1000 lb (450 kg) Horse	Elimination Half-Life	Detection Limit Source of Info.
<b>TRANQUILIZERS/ SEDATIVES</b>				
<b>Acepromazine</b>	Tranquilizer used for calming horses. Has no pain-relieving action	25 mg IV, IM; 30 mg IM 50 mg Orally	3 hr (IV) 6 hr (Orally)	36 hr (Canada), 120 hr (AAEP) 72 hr (Australia)
<b>Butorphenol (Torbugesic®)</b>	Sedative with pain-relieving action	5 mg/72 hr (Australia)	4 hr	72 hr (Canada)
<b>Dantrolene (Dantrium®)</b>	Muscle relaxant used in horses with myopathies ("tying-up")	1 g Orally	2 hr	36 hr (Canada)
<b>Detomidine (Dormosedan®)</b>	Sedative with pain-relieving action	5 g IV	1 hr	48 hr (Australia, FEI), 72 hr (CAN)
<b>Guaifenesin</b>	Muscle relaxant used in horses with myopathies ("tying-up")	2 g IV, Orally	1.5 hr	24 hr (Canada), 48 hr (Australia)
<b>Methocarbamol (Robaxin®)</b>	Muscle relaxant used in horses with myopathies ("tying-up")	5 g IV, Orally	1 hr	24 hr (Canada)
<b>Romifidine (Sedivet®)</b>	Sedative with pain-relieving action	30 mg IV	N/A**	48 hr (Australia)
<b>ANTI-INFLAMMATORIES/ PAIN RELIEVERS</b>				
<b>Aspirin</b>	Anti-inflammatory agent	11.7 g Orally	1 hr	24 hr (Canada)
<b>Diclofenac sodium (Surpass®)</b>	Applied topically as an anti-inflammatory agent	Five-inch ribbon of 1% cream applied twice daily for up to 10 days	N/A**	72 hr (Boehringer)
<b>Dimethyl sulfoxide (DMSO)</b>	Applied topically as an anti-inflammatory agent	19.8 g topically 450 mg IV	9 hr	36 hr (Canada), 72 hr (AAEP) 96 hr (AAEP)
<b>Firocoxib (Equioxx)</b>	COX-2 selective nonsteroidal anti-inflammatory used to treat musculoskeletal pain and lameness associated with osteoarthritis	0.09 mg/kg IV s.i.d. 5 days; 0.1 mg/kg PO s.i.d. 14 days; 57 mg PO s.i.d. 14 days	1.7 days	7 days
<b>Flunixin meglumine (Banamine®)</b>	Nonsteroidal anti-inflammatory drug used to treat colic, musculoskeletal pain and inflammation	450 mg IV, Orally	1.6 hr	72 hr (Canada), 72 hr (AUS) 15 days (ELISA-AAEP), 144hr (FEI)
<b>Ketoprofen (Ketofen®)</b>	Nonsteroidal anti-inflammatory drug used to treat colic, musculoskeletal pain and inflammation	1 g IV	1.5 hr	48 hr (Canada), 72 hr (Australia, AAEP), 96 hr (FEI)
<b>Lidocaine</b>	Local anesthetic	150 mg SC	1 hr	24 hr (Canada)
<b>Meclofenamic acid (Arquel®)</b>	Nonsteroidal anti-inflammatory drug used to treat colic, musculoskeletal pain and inflammation	1 g Orally	8 hr	48 hr (Canada), 72 hr (Australia)
<b>Mepivacaine (Carbocaine®)</b>	Local anesthetic	300 mg SC, IA	3 hr	48 hr (Canada, Australia, FEI)
<b>Naproxen (Equiproxen, Aleve®)</b>	Nonsteroidal anti-inflammatory drug used to treat colic, musculoskeletal pain and inflammation	2 g Orally	4 hr	120 hr (Canada)
<b>Phenylbutazone ("Bute")</b>	Nonsteroidal anti-inflammatory drug used to treat colic, musculoskeletal pain and inflammation	1-2 g IV or Orally	11 hr	96 hr (Canada), 120 hr (Australia), 168 hr (FEI)
<b>Procaine penicillin G</b>	Procaine decreases pain of intramuscular penicillin	Dosage varies	10 hr	425 hr (Canada)
<b>CORTICOSTEROIDS</b>				
<b>Betamethasone (Betasone®, Celestone®)</b>	Anti-inflammatory; allergic reactions	35 mg IM	N/A	24 hr Canada, >7 days (Australia)
<b>Dexamethasone (Azium®)</b>	Anti-inflammatory; allergic reactions	25 mg IV, IM 10 mg Orally	4 hr	24 hr (Canada), 48 hr (Australia) 144 hr (ELISA - AAEP)
<b>Flumethasone (Flucort®)</b>	Anti-inflammatory; allergic reactions	5 mg IV, IM	N/A	24 hr (Canada)
<b>Isoflupredone (Predef.2X®)</b>	Anti-inflammatory; allergic reactions	24 mg IM	N/A	48 hr (Canada)
<b>Methylprednisolone acetate (Depo-Medrol®)</b>	Anti-inflammatory; allergic reactions	200 mg IA, IM	9 days	96 hr (Canada), 222 hr (ELISA- AAEP), > 45 days.(Australia)
<b>Prednisolone</b>	Anti-inflammatory; allergic reactions	150 mg IV	1.65 hr	24 hr (Canada)
<b>Prednisone</b>	Anti-inflammatory; allergic reactions	1gram Orally	2 hr	24 hr (Canada)
<b>Triamcinolone (Vetalog®)</b>	Anti-inflammatory; allergic reactions	24 mg IM	2 hr	24 hr (Canada),15 days (Australia)

## Appendix E. (cont'd)

MISCELLANEOUS DRUGS				
Aminophylline	Opens airways in horses with "heaves"	1.5 g IV	N/A	96 hr (Canada)
Clenbuterol (Ventipulmin®)	Opens airways in horses with "heaves"	0.4 mg Orally	N/A	72 hr (Canada)
Dembrexine (Sputolysin®)	Expectorant in horses with "heaves"	150 mg Orally	N/A	72 hr (Canada)
Diphenhydramine (Benadryl®)	Antihistamine	500 mg Orally	N/A	48 hr (Canada)
Isoxuprine	Dilates blood vessels, used for treatment of navicular disease	300 mg Orally	3 hr	36 hr (Canada), weeks-months (ELISA - AAEP)
Omeprazole (GastroGard®, UlcerGard®)	Proton pump inhibitor used for the treatment of esophagitis, erosive gastritis and gastric ulcers	4 mg/kg once daily Orally (therapeutic) 1 mg/kg once daily Orally (preventive)	N/A N/A	24 hr (Merial)
Pergolide (Prascend®)	PPID (Cushings) therapy	1 mg once daily Orally		7 da (USEF)
Theophylline	Opens airways in horses with "heaves"	6 g Orally	N/A	>7 da (Australia)

\* IV – Intravenous; IM – Intramuscular; SC – Subcutaneous; IA – Intra-articular; PO – Per Os/ Oral; \*\* No information available

## Appendix F. Prohibited Treatments

- Acupuncture, or any procedure involving the insertion of a needle into the equine.
- Osseous manipulation (chiropractic).
- Any manipulative using an external device or instrument such as devices to manipulate or stimulate acupressure or response points, including but not limited to bioscans, laser lights or magnetic stimulation.
- Any procedure involving the placement of a tube or other instrument into the equine (other than the oral cavity using a dosing syringe, see Appendix G item 4) for the purpose of administering a substance or to stimulate a response.
- Extracorporeal Shockwave therapy or similar device to produce a temporary or permanent analgesia. This would also include radiofrequency (RF) neurectomy. Extracorporeal shockwave therapy is not permitted within 7 days of competition.
- Any external magnetic field device or electro-pulse generator device applied either over the entire body or specifically on pressure points. This would include but not be limited to P3 machines.
- Administration of a local anesthetic, either topical, injectable or oral, to any part of the horse or any procedure that results in desensitization of any part of the equine.
- Pinfiring/pinfreezing - visible, active, open lesions from such a procedure would prohibit a horse from competition.
- Devices that circulate ice water, cool below 0 degrees Celsius, or provide compression.
- Kinesiology taping.
- Equivibe and similar whole body vibration devices.

## Appendix G. Allowable Treatments

- Massage, deep massage/acupressure using digital (hand/finger) pressure only.
- The use of instruments commonly known as grooming instruments.
- The use of ice boots and other means of applying ice/ice water cooling packs topically by various attachment methods whose primary

function is to stabilize the ice/cooling method in place.

- The oral administration of permitted substances by means of a dosing syringe.
- Healed scars from pinfiring are allowed.

## Appendix H. Comparison with AERC

Substance/ Treatment	Allowed in AERC	Allowed in NATRC
Progesterone/ Progestagens/ Altrenogest (Regumate)	Yes	No
Topical agents, including ophthalmic, otic, dermal and wound ointments, and liniments	Yes - If they do not contain any prohibited substance	No
Topically applied isopropyl alcohol	Yes	No
Acid neutralizers including aluminum hydroxide (Maalox, Neighlox)	Yes	No
Ice boots and other means of applying ice/ ice water topically	Yes	Yes
Ice and ice water used in devices that circulate ice water	Yes	No
Ice and ice water used in device that cool below 0 degrees Celsius	No	No