

## Drug Appendices for 2023

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	Corticaïne
Acetazolamide	Arnica	Bromperidol	Chloraldehyde	Cortisone
Acetophenazine	Arsenic	Brompheniramine	Chloralose	Cromolyn
Acetophenetidin	Articaïne	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	Cimeterol	Deoxycorticosterone
Amcinonide	Benoxinate	Caffeine	Cimetidine	Derecoxib
Amiloride	Benperidol	Calusterone	Cinchocaine	Desipramine
Aminocaproic acid	Bentazepam	Camazepam	Citalopram	Desonite
Amiodarone	Benztactizine	Camphor	Clemastine	Desoximetasone
Aminoglycosides	Benzocaine	Candesartan	Clenbuterol	Detomidine
2-Aminoheptane	Benzocetamine	Capsaicin	Clibucaine	Devil's Claw
Aminophylline	Benzodiazepines	Captodiame	Clidinium	Dexamethasone
Aminopyrine	Benzphetamine	Captopril	Clobazam	Dextromethorphan
Amisometradine	Benzthiazide	Carazolol	Clobetasol	Dextromoramide
Amisulpride	Benztropine	Carbachol	Clocapramine	Dextropropoxyphene
Amitraz	Benzylpiperazine	Carbamezapine	Clocortolone	Dezocine
Amitriptyline	Bepriidil	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	Clorzepate	Diclofenac
Amylnitrite	Bisoprolol	Carprofen	Clormecaine	Dicumarol
Anileridine	Bitolterol	Carzolol	Clothiapine	Diethylpropion
Anilopam	Boldenone	Carteïne	Clotiazepam	Diethylthiambutene
Anisindione	Bretylum	Carvedilol	Cloxazolam	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	Loflazepam
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
Dipyrrone	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	Mephesisin
Endorphins	Floctafenine	Halcinonide	Lamotrigine	Mephenoxalone
Enkephalins	Fluanisone	Halobetasol	Lansoprazol	Mephentermine
Ephedrine	Flucinolone	Haloperidol	Laurel	Mephenytoin
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
Erthryl.tetranitrate	Flumethiazide	Hexafluorenium	Letosteine	Merbaphen
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	Metaclazepam
Ethacrynic acid	Fluopromazine	Hordeine	Lisinopril	Metaproterenol

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

## Appendix A. Prohibited Substances

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

## 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	Dipyron	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	Pyrimidine	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	Methoxytramine	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