

American Endurance Ride Conference

Rule 13 Appendices

Please see the AERC Rules and Regulations (revised December 1, 2011) for complete information about AERC drug rule policy.

Appendix A. Prohibited Substances

Acebutolol.....Sectral	Beclomethasone Propadern	Carfentanil	Cyclizine .....Merazine
Acecarbromal	Belladonna	Carisoprodol .....Rela, Soma	Cyclobarbitol .....Phanodorm
Acenocoumarol	Bemegride Megimide, Mikedimide	Carphenazine Proketazine	Cyclobenzaprine Flexeril
Acepromazine Atrovet, Notensil, PromAce®	Benazeprilat, Benazepril and MC-tab .....Lotrel,	Carpipramine .....Prazinil	Cycloheximide .....Surfacaine
Acetaminophen (Paracetamol).Tylenol, Tempra, etc.	Lotensin	Carprofen .....Rimadyl	Cyclothiazide .....Anhydron, Renazide
Acetanilid	Bendroflumethiazide Naturetin	Carteolol Cartrol	Cyrimine .....Pagitane
Acetazolamide .....Diamox, Vetamox	Benoxaprofen	Carticaine (see articaine) Septocaine;	Cyproheptadine Periactin
Acetophenazine .....Tindal	Benoxinate .....Dorsacaine	Ultracaine, etc.	Danazol Danocrine
Acetophenetidin (Phenacetin)	Benperidol .....Anquil	Carvedilol Coreg	Dantrolene Dantrium
Acetylpromazine	Benzazepam .....Tiadipona	Cathinone (khat, kat, qat, quat, chat, catha,	Darbepoetin Aranesp
Acetylsalicylic acid (Aspirin)	Benzactizine Deprol, Bronchodiletten	Abyssinian tea, African tea)	Decamethonium Syncurine
Adinazolam	Benzocaine	Celecoxib Celebrex	Dembroxol (Dembrexine)
Albuterol (Salbutamol).....Proventil, Ventolin	Benzocetamine	Cephalosporins Naxcel, Kefzol	Demethylpyrilamine .....Sputolysin
Alclofenac	Benzodiazepines	(including ceftiofur, cefazolin)	Demoxepam
Aclomethasone .....Aclovote	Benzphetamine .....Didrex	Cetirizine	Deoxycorticosterone Percortin, DOCA,
Alcuronium .....Alloferan	Benzthiazide	Chamomile.....Zyrtec	Descotone, Dorcortin
Aldosterone .....Aldocortin, Electro cortin	Benztropine Cogentin	Chloral betaine Beta-Chlor	Derecoxib Deremaxx
Alfentanil .....Alfenta	Benzylpiperazine (BZP)	Chloral hydrate Nactec, Oridrate, etc.	Desipramine Norpromine, Pertofrane
Almotriptan .....Axert	Bepiridil Bepadin	Chloraldehyde (chloral)	Desonite Des Owen
Alphaprodine Nisentil	Betamethasone Betasone, etc.	Chloralose (Alpha-Chloralose)	Desoximetasone Topicort
Alpidem Anaxyl	Betaxolol Kerlone	Chlorbutanol	Detomidine Dormosedan
Alprazolam .....Xanax	Bethanechol Urecholine, Duvoid	Chlordiazepoxide Librium	Devil's Claw
Alprenolol	Bethanidine .....Esbatal	Chlorhexidol 2	Dexamethasone .....Azium, etc.
Althesin Saffan	Biperiden .....Akineton	Chlormerodrin Neohydrin	Dextromethorphan
Ambenonium Mytelase, Myeuran	Biriperone	Chlormezanone Trancopal	Dextromoramide Palfium, Narcolo
Ambroxol Ambril, etc.	Bisoprolol Zebeta, Bisobloc, etc.	Chloroform 2	Dextropropoxyphene Darvon
Amcinonide .....Cyclocort	Bitolterol Effectin	Chlorophenesin Maolate	Dezocine Dalgan
Amiloride Moduretic; Midamor	Boldenone Equipoise	Chloroprocaine Nesacaine	Diamorphine
Aminocaproic acid .....Amicar, Caprocid	Bretylium Bretylol	Chloroquine Avloclor	Diazepam Valium
Aminodarone	Brimonidine .....Alphagan	Chlorothiazide .....Diuril	Diazoxide .....Proglycem
Aminoglycosides Gentocin, Amiglyde, Tobrex,	Bromazepam Lexotan, Lectopam	Chlorpheniramine .....Chlortriemton, etc.	Dibucaine Nupercainal, Cinchocaine
Biosol, Adspec (including gentamicin,	Bromfenac .....Duract	Chlorproethazine Newiplège	Dichloralphenazone .....Fefenol, Isocom
amikacin, tobramycin, neomycin, spectinomycin	Bromhexine Oletor, etc.	Chlorpromazine .....Thorazine, Largactil	Dichlorphenamide .....Daramide
2-Aminoheptane .....Tuamine	Bromisovalum Diffucord, etc.	Chlorprothixene Taractan	Diclofenac Surpass, Voltaren, Voltarol
Aminophylline .....Aminophyllin, etc.	Bromocriptine .....Parlodel	Chlorthalidone .....Hydroton	Dicumarol .....Dicumarol
Aminopyrine	Bromodiphenhydramine	Chlorzoxazone .....Paraflex	Diethylpropion .....Tepanil, etc.
Amisometradine Rolictron	Bromperidol .....Bromidol	Cilostazol .....Pletal	Diethylthiambutene .....Themalon
Amisulpride .....Solian	Brompheniramine Dimetane, Disomer	Cimeterol	Diflorasone Florone, Maxiflor
Amitraz .....Mitaban	Brotizolam Brotocol	Cimetidine .....Tagamet	Diflucortolone .....Flu-Cortinest, etc.
Amitriptyline .....Elavil, Amitril, Endep	Budesonide Pulmacort, Rhinocort	Cinchocaine Nupercaine	Diflunisal
Amlodipine .....Ammivin, Norvasc	Bufotenine	Citalopram .....Celex	Digitoxin Crystodigin
Amobarbital .....Amytal	Bumetanide Bumex	Clemastine Tavist	Digoxin .....Lanoxin
Amoxapine .....Asendin	Bupivacaine Marcaine	Clenbuterol Ventipulmin	Dihydrocodeine .....Parcodin
Amperozide	Buprenorphine .....Temgesic	Clibucaine .....Batrax	Dihydroergotamine
Amphetamines	Bupropion .....Wellbutrin	Clidinium Quarezan, Clindex, etc.	Dilorazepam .....Briantum
Amrinone	Buspiron Buspar	Clobazam Urbanyl	Diltiazem Cardizem
Amlyl nitrite	Butabarbital (Secbutobarbitone) Butacaps,	Clobetasol Temovate	Dimeflin
Anileridine .....Leritine	Butacaine Butyn	Clocapramine	Dimethisoquin .....Quotane
Anilopam .....Anisine	Butalbital (Talbutal) Fiorinal	Clocortolone Cloderm	Dimethylglycine DMG
Anisindione	Butamben (butyl aminobenzoate) Butesin	Clofenamide	Dimethylsulfoxide (DMSO) Domoso
Anisotropine Valpin	Butanilicaine .....Hostacain	Clomethiazole (Chlormethiazole)	Diphenadione
Antipyrine	Butaperazine .....Repoise	Clomipramine .....Anafranil	Diphenhydramine Benadryl
Apazone (Azapropazone) Rheumox	Butoctamide .....Listomin	Clonazepam .....Klonopin	Diphenoxylate Difenoxin, Lomotil
Apomorphine	Butorphanol .....Stadol, Torbugesic	Clonidine Catapres	Dipremorphine .....M50/50
Aprindine	Butoxycaine .....Stadacain	Clorazepate .....Tranxene	Dipyridamole .....Persantine
Aprorbarital .....Alurate	N-butylscopolammonium bromide .....Buscopan	Clormecaine .....Placacid	Dipyrrone .....Novin, Methampyrone
Arecoline	Caffeine	Clothiapine .....Entermin	Disopyramide .....Norpace
Arnica	Calusterone Methosorb	Clotiazepam .....Trecalmo, Rize	Divalproex .....Depakote
Arsenic	Camazepam .....Paxor	Cloxacolam .....Enadel, Sepazon, Tolestan	Diryrazine .....Esucos
Articaine .....Septocaine; Ultracaine, etc.	Camphor	Clozapine .....Clozaril, Leponex	Dobutamine .....Dobutrex
Ashwaghanda	Candesartan	Cocaine	Dopamine .....Intropin
Atenolol .....Tenormin	Capsaicin .....Atcand	Codeine	Donepezil .....Aricept
Atomoxetine .....Strattera	Captodiame .....Covatine	Colchicine	Doxacurium .....Nuromax
Atracurium .....Tracrium	Captopril .....Capolen	Comfrey	Doxapram .....Dopram
Atropine	Carazolol .....Carbacel, Conductor	Conorphone	Doxazosin
Azacylonol	Carbachol .....Lentin, Doryl	Corticaine .....Ultracain	Doxefazepam .....Doxans
Azaperone..... Stresnil, Suicalm, Fentaz (with	Carbamezapine .....Tegretol	Cortisone .....Cortone, etc.	Doxepin .....Adapin, Sinequan
Fentanyl)	Carbidopa + levodopa .....Sinemet	Cromolyn .....Intel	Doxylamine .....Decapryn
Bacitracin	Carbinoxamine .....Clistin	Crotetamide	Dromostanolone .....Drolban
Baclofen .....Lioresal	Carbromol .....Mifudorm	Cyamemazine .....Tercian	Droperidol .....Inapsine, Droleptan, Innovar-Vet
Barbital .....Veronal		Cyclandelate .....Cyclospasmol	(with Fentanyl)

A. Prohibited Substances . . .

Dyclonine	.....Dyclone	Fluoxetine	.....Prozac	Ketoprofen	.....Orudis	Methapyrilene	.....Histadyl, etc.
Dyphylline		Fluoxymesterone	.....Halotestin	Ketorolac	.....Toradol	Methaqualone	.....Quaalude
Edrophonium	.....Tensilon	Flupenthixol	.....Depixol, Fluanxol	Labetalol	.....Normodyne	Metharbital	.....Gemonil
Eletripan	.....Relpax	Fluphenazine	.....Prolixin, Permitil, Anatenzol, etc.	Lamotrigine	.....Lamictal	Methazalamide	.....Naptazane
Eltenac		Flupirtine	.....Katadolone	Lansoprazole		Methcathinone	
Enalapril (metabolite enalaprilat)	.....Vasotec	Fluprednisolone	.....Alphadrol	Laurel		Methdilazine	.....Tacaryl
Enciprazine		Flurandrenolide	.....Cordran	Lavender		Methixene	.....Trest
Endorphins		Flurazepam	.....Dalmane	Lemon balm		Methocarbamol	.....Robaxin
Enkephalins		Flurbiprofen	.....Froben	Lenperone	.....Elanone-V	Methohexital	.....Brevital
Ephedrine		Fluspirilene	.....Imap, Redeptin	Leopard's bane		Methotrexate	.....Folex, Nexate, etc.
Epinephrine		Fluticasone	.....Flixonase, Flutide	Letosteine	.....Viscotiol, Visiotal	Methotrimeprazine	.....Levoprome, Neurocil, etc.
Epoetin alfa		Flutoprazepam	.....Restas	Levallorphan		Methoxamine	.....Vasoxyl
Ergonovine	.....Ergotrate	Fluvoxamine	.....Dumirox, Faverin, etc.	Levobunolol	.....Betagan	Methoxyphenamine	.....Orthoxide
Ergotamine	.....Gynergen, Cafergot, etc.	Formoterol	.....Altram	Levomethorphan		Methscopolamine	.....Pamine
Erithryl tetranitrate	.....Cardilate	Fosinopril, metabolite, Fosinoprilat	.....Monopril	Levorphanol	.....Levo-Dremoran	Methsuximide	.....Celontin
Erythropoietin (EPO)	.....Epogen, Procrit, etc.	Fosphenytoin	.....Cerebyx	Levothyroxine	.....Eltroxin, Synthroid, Soloxine, Thyro-Tabs, Thyro-Form	Methylatropine	
Esmolol	.....Brevibloc	Furosemide	.....Lasix	Lidocaine	.....Xylocaine	Methylchlorothiazide	.....Enduron
Esomeprazole	.....Nexium	Gabapentin	.....Neurontin	Lisinopril	.....Prinivil, Zestril	Methyldopa	.....Aldomet
Estazolam	.....Domnamid, Eurodin, Nuctalon	Galantamine	.....Reminyl	Lithium	.....Lithizine, Duralith, etc.	Methylergonovine	.....Methergine
Etamiphylline		Gallamine	.....Flaxedil	Lobeline		Methylphenidate	.....Ritalin
Etanercept	.....Enbrel	Gamma-aminobutyric acid (GABA)		Lofentanil		Methylprednisolone	.....Medrol
Ethacrynic acid	.....Edecrin	Gamma-oryzanol (other than naturally occurs in equine feeds such as rice bran/rice bran oil)		Loflazepate, Ethyl	.....Victan	Methylsulfonmethane MSM	
Ethamivan		Gepirone		Loperamide	.....Imodium	Methyltestosterone	.....Metadren
Ethchlorvynol	.....Placidyl	Glutethimide	.....Doriden	Loprazolam	.....Dormonort, Havlane	Methypyrlyon	.....Noludar
Ethinamate	.....Valmid	Glycopyrrolate	.....Robinul	Loratidine	.....Claritin	Methysergide	.....Sansert
Ethoheptazine	.....Zactane	Griseofulvin		Lorazepam	.....Ativan	Metamide	
Ethopropazine	.....Parsidol	Guaifenesin (glycerol guaiacolate)	.....Gecolate	Lormetazepam	.....Noctamid	Metoclopramide	.....Reglan
Ethosuximide	.....Zarontin	Guanadrel	.....Hylorel	Losartan	.....Hyzaar	Metocurine	.....Metubine
Ethotoin	.....Peganone	Guanethidine	.....Ismelin	Loxapine	.....Laxitane	Metolazone	
Ethoxzolamide	.....Cardrase, Ethamide	Guanabenz	.....Wytensin	LSD		Metomidate	.....Hypnodil
Ethyl alcohol		Halazepam	.....Paxipam	Mabuterol		Metopon (methyldihydromorphinone)	
Ethylaminobenzoate (Benzocaine)	.....Semets, etc.	Halcinonide	.....Halog	Macrolides	.....Zithromax, Biaxxin (including erythromycin, azithromycin, clarithromycin)	Metoprolol	.....Lopressor
Ethylestrenol	.....Maxibolin, Organon	Halobetasol	.....Ultravate	Magnesium sulphate administered for the purpose of and at the levels of providing a calming/tranquilizing effect. Magnesium sulphate administered as an electrolyte supplementation is allowed.		Metronidazole Flagyl	
Ethylisobutrazine	.....Diquel	Haloperidol	.....Haldol	Maprotiline	.....Ludiomil	Mexazolam	.....Melex
Ethylmorphine	.....Dionin	Haloxazolam	.....Somelin	Mazindol	.....Sanorex	Mexilitine	.....Mexilil
Ethylnorepinephrine	.....Bronkaphrine	Hemoglobin glutamers	.....Oxyglobin Hemopure	Mebutamate	.....Axiten, Dormate, Capla	Mibefradil	.....Posicor
Etidocaine	.....Duranest	Heparin		Mecamylamine	.....Inversine	Midazolam	.....Versed
Etifoxin	.....Stresam	Heptaminol	.....Corofundol	Meclofenamic acid	.....Arquel	Midodrine	.....Pro-Amiline
Etizolam	.....Depas, Pasaden	Heroin		Meclofenoxate	.....Lucidril, etc.	Milenperone	
Etodolac	.....Lodine	Hexafluorenum	.....Myalexen	Medazepam	.....Nobrium, etc.	Milrinone	
Etodroxizine	.....Indunox	Hexobarbital	.....Evipal	Medetomidine	.....Domitor	Mirinone	
Etomidate		Hexocyclium	.....Tral	Medryson	.....Medriusar, etc.	Minoxidil	.....Loniten
Etorphine HCl	.....M99	Hexylcaine	.....Cyclaine	Mefenamic acid	.....Ponstel	Mirtazepine	.....Remeron
Eugenol		Homatropine	.....Homapin	Mefenamic acid	.....Ponstel	Misoprostel	.....Cytotec
Famotidine	.....Gaster, Pepcid	Homophenazine	.....Pelvichthol	Meloxicam	.....Mobic	Mivacurium	.....Mivacron
Felbamate	.....Felbatol	Hops		Melperone	.....Eunerpan	Modafinil	.....Provigil
Felodipine	.....Plendil	Hordeinene		Memantine	.....Namenda	Moexipril (metabolite, moexiprilat)	.....Uniretic
Fenarbamate	.....Tymium	Hydralazine	.....Aprexoline	Menthol		Molindone	.....Moban
Fenbufen	.....Cincopal	Hydrochlorothiazide	.....Hydrodiuril	Meparfynol	.....Oblivon	Mometasone	.....Elocon
Fenclozic acid	.....Myalex	Hydrocodone (dihydrocodienone)	.....Hycodan	Mepazine	.....Pacatal	Montelukast	.....Singulair
Fenfluramine	.....Pondimin	Hydrocortisone (Cortisol)	.....Cortef, etc.	Mepenzolate	.....Cantil	Moperone	.....Luvatren
Fenoldopam	.....Corlopam	Hydroflumethiazide	.....Saluron	Meperidine	.....Demerol	Morphine	
Fenopropfen	.....Nalfon	Hydromorphone	.....Dilaudid	Mephensin	.....Tolserol	Mosaprimine	
Fenoterol	.....Berotec	Hydroxyamphetamine	.....Paradrine	Mephenoaxalone	.....Control, etc.	Muscarine	
Fenspiride	.....Respiride, Respan, etc.	Hydroxyzine	.....Atarax	Mefentermine	.....Wyamine	Nabumetone	.....Anthraxan, Relafan, Reliflex
Fentanyl	.....Sublimaze	Hyoscine		Mefenamic acid	.....Ponstel	Nadol	.....Corgard
Fentiazac		Ibomal	.....Noctal	Meloxicam	.....Mobic	Naepaine	.....Amylsine
Fexofenadine	.....Allegra	Ibuprofen	.....Motrin, Advil, Nurpin, etc.	Melperone	.....Eunerpan	Nalbuphine	.....Nubain
Firocoxib Equioxx		Ibutilide	.....Corvert	Memantine	.....Namenda	Nalmefene	
Flecainide	.....Idalon	Iloprost	.....Ventavis	Menthol		Nalorphine	.....Nalline, Lethidrone
Floctafenine	.....Idalon, Idarac	Imipramine	.....Imavate, Presamine, Tofranil	Meparfynol	.....Oblivon	Naloxone	.....Narcan
Fluanisone	.....Sedalande	Indomethacin	.....Indocin	Mepazine	.....Pacatal	Naltrexone	.....Revia
Flucinolone	.....Synalar, etc.	Infliximab	.....Remicade	Mepenzolate	.....Cantil	Nandrolone	.....Nandrolin, Laurabolin, Durabolin
Fludiazepam	.....Erispan	Ipratropium		Meperidine	.....Demerol	Naphazoline	.....Privine
Fludrocortisone	.....Alforone, etc.	Irbesarten	.....Avapro	Mephensin	.....Tolserol	Naproxen	.....Equiproxen, Naprosyn
Flufenamic acid		Isapirone		Mephenoaxalone	.....Control, etc.	Naratriptan	.....Amerge
Flumethasone	.....Flucort, etc.	Isocarboxazid	.....Marplan	Mepivacaine	.....Carbocaine	Nedocromil	.....Tilade
Flumethiazide	.....Ademol	Isoetharine	.....Bronkosol	Meralluride	.....Mercurhydrin	Nefazodone	.....Serzone
Flunarizine	.....Sibelium	Isoflupredone	.....Predef	Merbapfen	.....Novasural	Nefopam	
Flunisolide	.....Bronilide, etc.	Isomethadone		Mercaptomerin	.....Thiomerin	Neostigmine	.....Prostigmine
Flunitrazepam	.....Rohypnol, Narcozep, Darkene, Hypnodorm	Isometheptene	.....Octin, Octon	Mercumalilin	.....Cumertilin	Nicardipine	.....Cardine
Flunixin	.....Banamine	Isopropamide	.....Darbid	Mersalyl	.....Salyrgan	Nifedipine	.....Procardia
Fluocinolone	.....Synalar	Isoproterenol	.....Isoprel	Mesalamine	.....Asacol	Niflumic acid	.....Nifluril
Fluocinonide	.....Licon, Lidex	Isosorbide dinitrate	.....Isordil	Mesoridazine	.....Serentil	Night shade	
Fluopromazine	.....Psyquil, Siquil	Isoxicam	.....Maxicam	Metaclazepam	.....Talis	Nikethamide	.....Coramine
Fluoresone	.....Caducid	Isosuprine	.....Vasodilan	Metaproterenol	.....Alupent, Metaprel	Nimesulide	
Fluorometholone	.....FML	Isradipine	.....DynaCirc	Metaraminol	.....Aramine	Nitazoxanide Navigator	
Fluoroprednisolone	.....Predef-2X	Itraconazole Sporanox		Metaxalone	.....Skelaxin	Nitrazepam	.....Erimin
Fluoroquinolones	.....Baytril, Cipro, Ciloxan, A180 (including enrofloxacin, ciprofloxacin, danofloxacin)	Kava kava		Methacholine		Nimodipine	.....Nemotop
		Ketamine	.....Ketalar, Ketaset, Vetalar	Methadone	.....Dolophine	Nitrazepam	.....Mogadon
		Ketazolam	.....Anxon, Laftram, Solatran, Loftran	Methamphetamine	.....Desoxy	Nitroglycerin	
		Ketoconazole Nizoral		Methandriol	.....Probolac	Nizatidine	.....Axid
				Methandrostenedione	.....Dianabol	Nordiazepam	.....Calmday, Nordaz, etc.
				Methantheline	.....Banthine	Norepinephrine	

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-epileptic 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, insulin growth factor and growth hormone
12. Hormonal products (natural or synthesized) except for progesterone or similar acting progestagens in mares only, administered for the purpose of controlling the estrus cycle.
13. 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
14. Hypersensitizing or desensitizing agents
15. Oxygen carriers
16. Antibiotics
17. Antiprotozoal antimicrobials
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 and/or natural products.
22. Local anaesthetics
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. Anti-coagulants
28. Anticholinergic substances
29. Evacuants and laxatives
30. Topical agents, including ophthalmic, otic, dermal and wound ointments or liniments that contain any prohibited substance
31. Any substance administered while competing in an endurance ride by nasogastric tube or syringe/needle.
32. Yucca administered for the purpose of and at the levels of ammonia reduction and intestinal health. Yucca administered for any other purpose or at levels to provide anti-inflammatory effect is prohibited.

Appendix C. Allowed Substances

1. Vitamins (other than thiamine administered for the purpose of providing a calming/tranquilizing effect)
2. Minerals
3. Electrolytes administered orally
4. Topical agents such as liniments and wound dressings that do not contain a prohibited substance
5. Topically applied isopropyl alcohol
6. Ice and ice water administered orally and/or topically
7. Progesterone and similar acting progestagens such as altrenogest (Regumate) only in mares to control estrus cycles.
8. The following chondroprotective agents: glucosamine, chondroitin sulfate, polysulfated glycosaminoglycan, hyaluronate. Not to be administered by needle/syringe while competing in an endurance ride (see Appendix B item 31).
9. Acid neutralizers including aluminum hydroxide (Maalox, Neighlox)
10. Anthelmintics (dewormers)
11. Probiotics
12. Magnesium sulphate administered for the purpose of electrolyte supplementation. Magnesium sulphate administered for the purpose of and at the levels of providing a calming/tranquilizing effect is prohibited.
13. Vaccines and immunostimulants*

*There is insufficient information available to advise as to the timing of administration close to the time of competition.

Appendix D. Threshold Levels

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

Acepromazine	25 ng/ml.....	urine	Dipyron	1,000 ng/ml.....	plasma	Oxyphenbutazone.....	1,000 ng/ml.....	plasma
Albuterol	1 ng/ml.....	urine	Estradiol	45 ng/ml (S).....	urine	Pentazocine.....	50 ng/ml.....	urine
Arsenic	200 ng/ml.....	urine	Flumethasone	10 ng/ml.....	urine	Phenylbutazone	1,000 ng/ml.....	plasma
Atropine.....	10 ng/ml.....	urine	Flunixin (Banamine).....	50 ng/ml.....	plasma	Prednisolone	1,000 ng/ml.....	urine
Benzocaine.....	50 ng/ml.....	urine	Furosemide	100 ng/ml.....	plasma*	Prednisone	100 ng/ml.....	urine
Boldenone.....	15 ng/ml (S).....	urine	Hydrocortisone.....	1,000 ng/ml.....	urine	Procaine	50 ng/ml.....	urine
BZE (Benzoylcegonine).....	50 ng/ml.....	urine	Imipramine.....	20 ng/ml.....	plasma	Promazine	25 ng/ml.....	urine
Betamethasone	60 ng/ml.....	urine	Isoflupredone	60 ng/ml.....	urine	Pyrilamine	50 ng/ml.....	urine
Bupivacaine	5 ng/ml.....	urine	Isoxsuprine.....	1,000 ng/ml.....	urine	Salicylates	750,000 ng/ml.....	urine
Butorphanol	10 ng/ml.....	urine	Ketoprofen	20 ng/ml.....	plasma	Salicylic Acid	625,000 ng/ml.....	urine
Caffeine	100 ng/ml.....	plasma	Lidocaine.....	50ng/ml.....	urine	.....	5,400 ng/ml.....	plasma
.....	300 ng/ml.....	urine	Meclofenamic Acid.....	1,000 ng/ml.....	plasma	Terbutaline	10 ng/ml.....	urine
Clenbuterol	25 pg/ml.....	plasma	Mephesisin	200 ng/ml.....	plasma	Testosterone		
Dantrolene	100 ng/ml.....	plasma	Mepivacaine.....	10 ng/ml.....	urine	(epitestosterone).....	20 ng/ml (G)	urine
Dexamethasone	60 ng/ml.....	urine	Methocarbamol.....	1,000 ng/ml.....	plasma	Testosterone.....	55 ng/ml (M)	urine
Diclofenac sodium.....	1.5 ng/ml.....	plasma	Methoxytramine.....	4,000 ng/ml.....	urine	Tetramisole.....	80 ng/ml.....	plasma
.....	100 ng/ml.....	urine	Methylprednisolone	1,000 ng/ml.....	urine	Theobromine.....	2,000 ng/ml.....	urine
Dimethylsulfoxide (DMSO) ...	15,000 ng/ml.....	urine	Morphine	50 ng/ml.....	urine			
.....	1,000 ng/ml.....	plasma	Naproxen	5,000 ng/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

Drug (Brand Name)	Therapeutic Indication	Typical Dose/Route* for 1000 lb. (450kg) Horse	Elimination Half-Life	Detection Limit Source of Info.
Tranquilizers/Sedatives				
acepromazine (Atravet®, PromAce®)	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)
butorphanol (Torbugesic®)	Sedative with pain-relieving action, used frequently to treat colic in horses.	5 mg IV	4 hr	72 hr (Canada)
dantrolene (Dantrium®)	Muscle relaxant used in horses with myopathies ("tying-up").	1 gram Orally	2 hr	36 hr (Canada)
detomidine (Dormosedan®)	Sedative with pain-relieving action, used frequently to treat colic in horses.	5 mg IV	1 hr	48 hr (Australia, FEI), 72 hr (Canada)
guaifenesin (Guailaxin®, Gecolate®)	Muscle relaxant used in horses with myopathies ("tying-up").	2 gram IV, Orally	1.5 hr	24 hr (Canada), 48 hr (Australia)
methocarbamol (Robaxin®)	Muscle relaxant used in horses with myopathies ("tying-up").	5 grams IV, Orally	1 hr	24 hr (Canada)
romifidine (Sedivet®)	Sedative with pain-relieving action, used frequently to treat colic in horses.	30 mg IV	N/A**	48 hr (Australia)
Anti-inflammatories/Pain Relievers				
aspirin	Orally or pain-reliever in the horse. Sometimes used to treat periodic ophthalmia ("moon blindness"), laminitis, and colic due to parasite damage.	11.7 grams Orally	1 hr	24 hr (Canada)
diclofenac sodium (Surpass)	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 (Idexx)
dimethylsulfoxide (DMSO)	Applied topically as an anti-inflammatory agent, given IV to treat myopathies and increase urination.	19.8 grams topically 450 mg IV	9 hr	36 hr (Canada), 72 hr (AAEP) 96 hr (AAEP)
flunixin meglumine (Banamine®)	Nonsteroidal anti-inflammatory drug used to treat colic and musculoskeletal pain and inflammation.	450 mg IV, Orally	1.6 hr	72 hr (Canada), 72 hr (Australia) 15 days (ELISA - AAEP), 144 hr (FEI)
ketoprofen (Ketofen®, Anafen®)	Nonsteroidal anti-inflammatory drug used to treat colic and musculoskeletal pain and inflammation	1 gram IV	1.5 hr	48 hr (Canada), 72 hr (Australia, AAEP), 96 hr (FEI)
lidocaine (Xylocaine®)	Local anesthetic used to block nerves.	150 mg SC	1 hr	24 hr (Canada)
meclufenamic acid (Arquel®)	Nonsteroidal anti-inflammatory drug used to treat colic and musculoskeletal pain and inflammation.	1 gram Orally	8 hr	48 hr (Canada), 72 hr (Australia)
mepivacaine (Carbocaine®)	Local anesthetic used to block nerves.	300 mg SC, IA	3 hr	48 hr (Canada, Australia, FEI)
naproxen (Equiproxen, Aleve®)	Nonsteroidal anti-inflammatory drug used to treat colic and musculoskeletal pain and inflammation.	2 grams Orally	4 hr	120 hr (Canada)
pergolide (Permax, Teva)				7 days (USEF)
phenylbutazone ("Bute")	Nonsteroidal anti-inflammatory drug used to treat colic and musculoskeletal pain and inflammation.	3 grams, IV, Orally 8.8 mg/kg twice daily on Day 1 then 4.4 mg/kg twice daily on Days 2-11	11 hr	96 hr (Canada), 120 hr (Australia), 168 hr (FEI)
procaine (Novocaine®)	Local anesthetic used to block nerves.	200 mg SC	2 hr IM 1 hr SC	48 hr (Canada)
procaine penicillin G	Combined with penicillin to make the antibiotic slowly absorbed from the injection site, to give it a long duration of antibacterial action.	4 million International Units IM	10 hr	425 hr (Canada)
Corticosteroids				
betamethasone (Betasone®, Celestone®)	Anti-inflammatory; allergic reactions.	35 mg IM	NA	24 hr (Canada), > 7 days (Australia)
dexamethasone (Azium®)	Anti-inflammatory; allergic reactions.	25 mg IV, IM 10 mg Orally	4 hr	24 hr (Canada), 48 hr (Australia) 144 hr (ELISA - AAEP)
flumethasone (Flucort®)	Anti-inflammatory; allergic reactions.	5 mg IV, IM	NA	24 hr (Canada)
isoflupredone (Predef 2X®)	Anti-inflammatory; allergic reactions.	24 mg IM	NA	48 hr (Canada)
methylprednisolone acetate (Depo-Medrol®)	Anti-inflammatory; allergic reactions.	200 mg IA, IM	9 days	96 hr (Canada), 222 hr (ELISA - AAEP), > 45 days (Australia)
prednisolone	Anti-inflammatory; allergic reactions.	150 mg IV	1.65 hr	24 hr (Canada)
prednisone	Anti-inflammatory; allergic reactions.	1 gram Orally	2 hr	24 hr (Canada)
triamcinolone (Vetalog®)	Anti-inflammatory; allergic reactions.	24 mg IM	2 hr	24 hr (Canada), 15 days (Australia)
Miscellaneous Drugs				
aminophylline	Opens airways in horses with "heaves".	1.5 grams IV	NA	96 hr (Canada)
clenbuterol (Ventipulmin®)	Opens airways in horses with "heaves".	0.4 mg Orally	NA	72 hr (Canada)
dembrexine (Sputolysin®)	Expectorant for horses with "heaves".	150 mg Orally	NA	72 hr (Canada)
diphenhydramine (Benadryl®)	Antihistamine.	500 mg Orally	NA	48 hr (Canada, Australia)
isoxuprine (Vasodilan®)	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 ulcer	0.7 mg/kg once daily Orally	N/A	24 hr (Merial)
theophylline	Opens airways in horses with "heaves".	6 grams Orally	NA	>7 days (Australia)

* IV - intravenous, IM - Intramuscular, SC - Subcutaneous, IA - Intra-articular (into the joint); ** No information available.

Appendix F. Prohibited Treatments

1. Acupuncture, or any procedure involving the insertion of a needle into the equine.
2. Osseous manipulation (chiropractic).
3. Any manipulative procedure 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.
4. 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.

5. 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.

6. Any external magnetic field device or electropulse generator device applied either over the entire body or specifically on pressure

points. This would include but not be limited to P3 machines.

7. 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.

8. Pinfiring/pinfreezing – visible active, open lesions from such a procedure would prohibit a horse from competition.

9. The use of substances or devices that cool below 0 degrees Celsius.

Appendix G. Allowable Treatments

1. Massage, deep massage/acupressure using digital (hand/finger) pressure only.
2. The use of instruments commonly know as grooming instruments.
3. The use of ice boots and other means of applying ice/ice water topically. Can include the use of compression wraps as well as devices that circulate

ice water. The use of devices or substances that cool below 0 degrees Celsius are prohibited.

4. The oral administration of permitted substances by means of dosing syringe.

5. Healed scars from pinfiring are allowed.