

American Endurance Ride Conference

Rule 13 Appendices

Revised March 12, 2018, for the 2018 AERC ride season

Appendix A. Prohibited Substances

Acebutolol.....Sectral	BeclomethasonePropadem	Carfentanil	CyclandelateCyclospasmol
Acecarbromal	Belladonna	CarisoprodolRela, Soma	CyclizineMerazine
Acenocoumarol	BemegrideMegimide, Mikedimide	CarphenazineProketazine	CyclobarbitalPhanodorm
AcepromazineAtrovet, Notensil, PromAce®	Benazeprilat, Benazepril and MC-tabLotrel,	CarpipraminePrazinil	CyclobenzaprineFlexeril
Acetaminophen (Paracetamol).Tylenol, Tempra, etc.	Lotensin	CarprofenRimadyl	CyclomethylcaineSurfacaine
Acetanilid	BendroflumethiazideNaturetin	CarteololCartrol	CyclothiazideAnhydron, Renazide
AcetazolamideDiamox, Vetamox	Benoxapron	Carticaine (see artiacaine)Septocaine;	CyriminePagitane
AcetophenazineTindal	BenoxinateDorsacaine	Ultracaine, etc.	CyproheptadinePeriactin
Acetophenetidin (Phenacetin)	BenperidolAnquil	CarvedilolCoreg	DanzolDanocrine
Acetylpromazine	BenzazepamTiadipona	Cathinone (khat, kat, qat, quat, chat, catha,	DantroleneDantrium
Acetylsalicylic acid (Aspirin)	BenzactizineDeprol, Bronchodiletten	Abyssinian tea, African tea)	DarbepoetinAranesp
Adinazolam	Benzocaine	CelecoxibCelebrex	DecamethoniumSyncurine
Albuterol (Salbutamol).....Proventil, Ventolin	Benzotamine	CephalosporinsNaxcel, Kefzol	Demabroxol (Dembrexine)
Alclofenac	Benzodiazepines	(including ceftiofur, cefazolin)	DemethylpyrilamineSputolysin
AclofemethasoneAclofate	BenzphetamineDidrex	Cetirizine	Demoxepam
AlcuroniumAlloferin	Benzthiazide	Chamomile.....Zyrtec	DeoxycorticosteronePercortin, DOCA,
AldosteroneAldocortin, Electrocortin	BenztropineCogentin	Chloral betaineBeta-Chlor	Descotone, Dorcostrin
AlfentanilAlfenta	Benzylpiperazine (BZP)	Chloral hydrateNactec, Oridrate, etc.	DerecoxibDeremaxx
AlmotriptanAxert	BepiridilBepadin	Chloraldehyde (chloral)	DesipramineNorpromine, Pertofrane
AlphaprodineNisentil	BetamethasoneBetasone, etc.	Chloralose (Alpha-Chloralose)	DesoniteDes Owen
AlpidemAnaxyl	BetaxololKerlone	Chlorbutanol	DesoximetasoneTopicort
AlprazolamXanax	BethanecholUrecholine, Duvoid	ChlordiazepoxideLibrium	DetomidineDormosedan
Alprenolol	BethanidineEsbatal	Chlorhexidol 2	Devil's Claw
AlthesinSaffan	BiperidenAkineton	ChlormerodrinNeohydrin	DexamethasoneAzium, etc.
AmbenoniumMytelase, Myeuran	Biriperone	ChlormezanoneTrancopal	Dextromethorphan
AmbroxolAmbril, etc.	BisoprololZebeta, Bisobloc, etc.	Chloroform 2	DextromoramidePalfium, Narcolo
AmcinonideCyclocort	BitolterolEffectin	ChlorophenesinMaolate	DextropropoxypheneDarvon
AmilorideModuretic; Midamor	BoldenoneEquipoise	ChloroprocaineNesacaine	DezocineDalgan
Aminocaproic acidAmicar, Caprocid	BretyliumBretylol	ChloroquineAvloclor	Diamorphine
Amiodarone	BrimonidineAlphagan	ChlorothiazideDiuril	DiazepamValium
AminoglycosidesGentocin, Amiglyde, Tobrex,	BromazepamLexotan, Lectopam	ChlorpheniramineChlortriemton, etc.	DiazoxideProglycem
Biosol, Adspec (including gentamicin,	BromfenacDuract	ChlorproethazineNewiplège	DibucaineNupercainal, Cinchocaine
amikacin, tobramycin, neomycin, spectinomycin	BromhexineOletor, etc.	ChlorpromazineThorazine, Largactil	DichloralphenazoneFebenol, Isocom
2-AminoheptaneTuamine	BromisovalumDiffucord, etc.	ChlorprothixeneTaractan	DichlorphenamideDaramide
AminophyllineAminophyllin, etc.	BromocriptineParlodel	ChlorthalidoneHydroton	DiclofenacSurpass, Voltaren, Voltarol
Aminopyrine	Bromodiphenhydramine	ChlorzoxazoneParaflex	Dicumarol
AmisometradineRolictron	BromperidolBromidol	CilostazolPletal	Dicumarol DiethylpropionTepanil, etc.
AmisulprideSolian	BrompheniramineDimetane, Disomer	Cimeterol	DiethylthiambuteneThemalon
AmitrazMitaban	BrotizolamBrotocol	CimetidineTagamet	DiflorasoneFlorone, Maxiflor
AmitriptylineElavil, Amitril, Endep	BudesonidePulmacort, Rhinocort	CinchocaineNupercaine	DiffucortoloneFlu-Cortinest, etc.
AmlodipineAmmivin, Norvasc	Bufotenine	CitalopramCelex	Diiflunisal
AmobarbitalAmytal	BumetanideBumex	ClemastineTavist	DigitoxinCrystodigin
AmoxapineAsendin	BupivacaineMarcaine	ClenbuterolVentipulmin	DigoxinLanoxin
Amperozide	BuprenorphineTemgesic	ClibucaineBatrax	DihydrocodeineParcodin
Amphetamines	BupropionWellbutrin	ClidiniumQuarezan, Clindex, etc.	Dihydroergotamine
Amrinone	BuspironBuspar	ClobazamUrbanyl	DilorazepamBriantum
Amly nitrite	Butabarbital (Secbutobarbitone)Butacaps,	ClobetasolUrmovate	DiltiazemCardizem
AnileridineLeritine	Butasol, etc.	Clocapramine	Dimeflin
AnilopamAnisine	ButacaineButyn	ClocortoloneCloderm	DimethisoquinQuotane
Anisindione	Butalbital (Talbutal)Fiorinal	ClodronateOspfos	Dimethylglycine DMG
AnisotropineValpin	Butamben (butyl aminobenzoate)Butesin	Clofenamide	Dimethylsulfoxide (DMSO)Domoso
Antipyrine	ButanilcaineHostacain	Clomethiazole (Chlormethiazole)	Diphenadione
Apazone (Azapropazone)Rheumox	ButaperazineRepoise	ClomipramineAnafranil	DiphenhydramineBenadryl
Apomorphine	ButoctamideListomin	ClonazepamKlonopin	DiphenoxylateDifenoxin, Lomotil
Aprindine	ButorphanolStadol, Torbugesic	ClonidineCatapres	DipremorphineM50/50
AprobarbitalAlurate	ButoxycaineStadacain	ClorazepateTranxen	DipyridamolePersantine
Arecoline	N-butylscopolammonium bromideBuscopan	ClormecainePlacacid	DipyrroneNovin, Methampryrrone
Arnica	Caffeine	ClothiapineEntermin	DisopyramideNorpace
Arsenic	CalusteroneMethosorb	ClotiazepamTrecalmo, Rize	DivalproexDepakote
ArticaineSeptocaine; Ultracaine, etc.	CamazepamPaxor	CloxacolamEnadel, Sepazon, Tolestan	DixyrazineEuscos
Ashwaghanda	Camphor	ClozapineClozaril, Leponex	DobutamineDobutrex
AtenololTenormin	Candesartan	Cocaine	DopamineIntropin
AtomoxetineStrattera	CapsaicinAtcand	Codeine	DonepezilAricept
AtracuriumTracrium	CaptodiamineCovatine	Colchicine	DoxacuriumNuromax
Atropine	CaptoprilCapolen	Comfrey	DoxapramDopram
Azacylonol	CarazololCarbacel, Conductor	Conorphone	Doxazosin
Azaperone.....Stresnil, Suicalm, Fentaz (with	CarbacholLentin, Doryl	CorticaineUltracain	DoxefazepamDoxans
Fentanyl)	CarbamezapineTegretol	CortisoneCortone, etc.	DoxepinAdapin, Sinequan
Bacitracin	Carbidopa + levodopaSinemet	CromolynIntel	DoxylamineDecapryn
BaclofenLioresal	CarbinoxamineClistin	Crotetamide	DromostanoloneDrolban
BarbitalVeronal	CarbromolMifudorm	CyamemazineTercian	

A. Prohibited Substances . . .

DroperidolInapsine, Droleptan, Innovar-Vet (with Fentanyl)
DyclonineDyclone
Dyphylline
Edrophonium Tensilon
EletripanRelpax
Eltanac
Enalapril (metabolite enalaprilat) Vasotec
Enciprazine
Endorphins
Enkephalins
Ephedrine
Epinephrine
Epoetin alfa
ErgonovineErgotrate
Ergotamine Gynergen, Cafergot, etc.
Erythryl tetranitrate Cardilate
Erythropoietin (EPO) Epogen, Procrit, etc.
EsmololBrevibloc
Esomeprazole Nexium
EstazolamDomnamid, Eurodin, Nuactalon
Etamiphylline
Etanercept Enbrel
Ethacrynic acidEdecrin
Ethamivan
Ethchlorvynol Placidyl
Ethinamate Valmid
EtoheptazineZactane
Ethopropazine Parsidol
Ethosuximide Zaronit
EthotoinPeganone
Ethoxzolamide Cardrase, Ethamide
Ethyl alcohol
Ethylaminobenzoate (Benzocaine) .Semets, etc.
EthylestrenolMaxibolin, Organon
Ethylisobutrazine Diquel
Ethylmorphine Dionin
Ethylnorepinephrine Bronkephrine
Etidocaine Duranest
EtifoxinStresam
EtizolamDepas, Pasaden
EtodolacLodine
Etodroxizine Indunox
Etomidate
Etorphine HCl M99
Eugenol
Famotidine Gaster, Pepcid
FelbamateFelbatol
FelodipinePlendil
Fenarbamate Tymium
FenbufenCincopal
Fenclozic acidMyalex
Fenfluramine Pondimin
FenoldopamCorlopam
FenopropfenNalfon
Fenoterol Berotec
Fenspiride Respirede, Respan, etc.
Fentanyl Sublimaze
Fentiazac
Fexofenadine Allegra
FirocoxibEquioxx
Flecainide Idalon
FloctafenineIdalon, Idarac
FluanisoneSedalande
FlucinoloneSynalar, etc.
FludiazepamErispam
FludrocortisoneAlforone, etc.
Flufenamic acid
FlumethasoneFlucort, etc.
Flumethiazide Ademol
FlunarizineSibelium
FlunisolideBronilide, etc.
Flunitrazepam ... Rohypnol, Narcozep, Darkene,
Hypnodorm
Flunixin Banamine
FluocinoloneSynalar
FluocinonideLicon, Lidex
FluopromazinePsyquil, Siquil
Fluoresone Caducid
FluorometholoneFML
FluoroprednisolonePredef-2X

Fluoroquinolones .. Baytril, Cipro, Ciloxan, A180 (including enrofloxacin, ciprofloxacin, danofloxacin)
FluoxetineProzac
FluoxymesteroneHalotestin
FlupenthixolDepixol,Fluanxol
Fluphenazine ..Prolixin, Permitil, Anatenzol, etc.
FlupirtineKatadolone
FluprednisoloneAlphadrol
FlurandrenolideCordran
FlurazepamDalmanc
FlurbiprofenFroben
FluspirileneImap, Redeptin
FluticasoneFlixonase, Flutide
FlutoprazepamRestas
Fluvoxamine Dumirox, Faverin, etc.
Formoterol Altram
Fosinopril, metabolite, Fosinoprilat Monopril
FosphenytoinCerebex
FurosemideLasix
GABA (see gamma aminobutyric acid)
Gabapentin Neurontin
GalantamineReminyl
GallamineFlaxedil
Gamma aminobutyric acid (GABA)
Gamma-oryzanol (other than naturally occurs in equine feeds such as rice bran/rice bran oil)
Gepirone
GlutethimideDoriden
Glycopyrrolate Robinul
Griseofulvin
Guaifenesin (glycerol guaiacolate) Gecolate
GuanadrelHylorel
GuanethidineIsmelin
GuanabenzWytensin
HalazepamPaxipam
HalcinonideHalog
HalobetasolUltravate
HaloperidolHaldol
HaloxazolamSomelin
Hemoglobin glutamers Oxyglobin Hemopure
Heparin
HeptaminolCorofundol
Heroin
HexafluorenumMyalexen
HexobarbitalEvipal
HexocycliumTral
HexylcaineCyclaine
HomatropineHomapin
HomophenazinePelvichthol
Hops
Hordenine
HydralazineApresoline
HydrochlorthiazideHydrodiuril
Hydrocodone (dihydrocodienone)Hycodan
Hydrocortisone (Cortisol) Cortef, etc.
Hydroflumethiazide Saluron
HydromorphoneDilaudid
HydroxyamphetamineParadrine
HydroxyzineAtarax
Hyoscine
IbomalNoctal
IbuprofenMotrin, Advil, Nurpin, etc.
IbutilideCorvert
IloprostVentavis
ImipramineImavate, Presamine, Tofranil
IndomethacinIndocin
InfliximabRemicade
Ipratropium
IrbesartenAvapro
Isapirone
IsocarboxazidMarplan
IsoetharineBronkosol
IsoflupredonePredef
Isomethadone
IsomethepteneOctin, Octon
IsopropamideDarbid
IsoproterenolIsoprel
Isosorbide dinitrateIsordil
IsoxicamMaxicam
IsoxsuprineVasodilan
IsradipineDynaCirc
Itraconazole Sporanox
Kava kava

KetamineKetalar, Ketaset, Vetalar
KetazolamAnxon, Laftram, Solatran, Loftran
Ketoconazole Nizoral
KetoprofenOrudis
KetorolacToradol
LabetalolNormodyne
LamotrigineLamictal
Lansoprazole
Laurel
Lavender
Lemon balm
LenperoneElanone-V
Leopard's bane
LetrosteineViscotiol, Visiotal
Levallorphan
LevobunololBetagan
Levomethorphan
LevorphanolLevo-Dremoran
LevothyroxineEltroxin, Synthroid, Soloxine, Thyro-Tabs, Thyro-Form
LidocaineXylocaine
LisinoprilPrinivil, Zestril
LithiumLithizine, Duralith, etc.
Lobeline
Lofentanil
Loflazepate, EthylVictan
LoperamideImodium
LoprazolamDormonort, Havlane
LoratidineClaritin
LorazepamAtivan
LormetazepamNoctamid
LosartanHyzaar
LoxapineLaxitane
LSD
Mabuterol
Macrolides Zithromax, Biaxxin (including erythromycin, azithromycin, clarithromycin)
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.
MaprotilineLudiomil
MazindolSanorex
MebutamateAxiten, Dormate, Capla
MecamylamineInversine
MeclizineAntivert, Bonine
Meclofenamic acidArquel
MeclofenoxateLucidril, etc.
MedazepamNobrium, etc.
MedetomidineDomitor
MedrysoneMedriuser, etc.
Mefenamic acidPonstel
MeloxicamMobic
MelperoneEunepan
MemantineNamenda
Menthol
MeparfynolOblivon
MepazinePacatal
MepenzolateCantil
MeperidineDemerol
MephensinTolserol
MephexaloneControl, etc.
MephentermineWyamine
MephenytoinMesantoin
Mephobarbital (Methylphenobarbital) Mebaral
MepivacaineCarbocaine
MeprobamateEquanil, Miltown
Meprylcaine
MerallurideMercurydrin
MerbaphenNovasural
MercaptomerinThiomerin
MercumalilinCumertilin
MersalylSalyrgan
MesalamineAsacol
MesoridazineSerentil
MetaclazepamTalis
MetaproterenolAlupent, Metaprel
MetaraminolAramine
MetaxaloneSkelaxin
Metazocine
Methacholine
MethadoneDolophine
MethamphetamineDesoxyx

MethandriolProboloc
MethandrostenedioneDianabol
MethanthelineBanthine
MethapyrileneHistadyl, etc.
MethaqualoneQuaalude
MetharbitalGemonil
MethazolamideNaptazane
Methathione
MethdilazineTacaryl
MethixeneTrest
MethocarbamolRobaxin
MethohexitalBrevital
MethotrexateFolex, Nexate, etc.
Methotrimeprazine ...Levoprome, Neurocil, etc.
MethoxamineVasoxyl
MethoxyphenamineOrthoxide
MethscopolaminePamine
MethsuximideCelontin
Methylatropine
MethylchlorthiazideEnduron
MethyldopaAldomet
MethylergonovineMethergine
MethylphenidateRitalin
MethylprednisoloneMedrol
MethylsulfonylmethaneMSM
MethyltestosteroneMetadren
MethypyrrolonNoludar
MethysergideSansert
Metiamide
MetoclopramideReglan
MetocurineMetubine
MetolazoneHyzaar
MetomidateHypnodil
Metopon (methylidihydromorphinone)
MetoprololLopressor
Metronidazole Flagyl
MexazolamMelex
MexilitineMexilil
MibefradilPosicor
MidazolamVersed
MidodrinePro-Amiline
Milenperone
Milrinone
MinoxidilLoniten
MirtazepineRemeron
MisoprostelCytotec
MivacuriumMivacron
ModafinilProvigil
Moexipril (metabolite, moexiprilat)Uniretic
MolindoneMoban
MometasoneElocon
MontelukastSingulair
MoperoneLuvatren
Morphine
Mosaprimine
Muscarine
NabumetoneAnthraxan, Relafan, Reliflex
NadolCorgard
NaepaineAmylsine
NalbuphineNubain
Nalmefene
NalorphineNalline, Lethidrone
NaloxoneNarcan
MephentermineWyamine
NaltrexoneRevia
Nandrolone ..Nandrolin, Laurabolin, Durabolin
NaphazolinePrivine
NaproxenEquiproxen, Naprosyn
NaratriptanAmerge
NedocromilTilade
NefazodoneSerzone
Nefopam
NeostigmineProstigmine
NicardipineCardine
NifedipineProcardia
Niflumic acidNifluril
Night shade
NikethamideCoramine
Nimesulide
Nitazoxanide Navigator
NitrazepamErimin
NimodipineNemotop
NitrazepamMogadon
Nitrofurazone ointment

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 administered at therapeutic levels 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.
33. Bisphosphonates.

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. Pergolide (Prascend) – 1 mg/kg/day
 14. Vaccines and immunostimulants*
 15. Omeprazole administered at a preventative dose no higher than 1 mg/kg/day
- *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)

In the absence of a listed threshold in Appendix D, AERC rule 13 will default to the Racing Medication and Testing Consortium (RMTc) existing thresholds.

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

*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

Provided as a guideline only

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)
firocoxib (Equioxx®)	Nonsteroidal anti-inflammatory drug used to treat musculoskeletal pain and inflammation	0.1 mg/kg/day		7 days (USEF)
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, Aleeve®)	Nonsteroidal anti-inflammatory drug used to treat colic and musculoskeletal pain and inflammation.	2 grams Orally	4 hr	120 hr (Canada)
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 and prevention of esophagitis, erosive gastritis and gastric ulcers	1.1 mg/kg once daily (preventive) Orally 4 mg/kg once daily (therapeutic) Orally	N/A N/A	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 acupuncture 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.

10. Equivibe and similar whole body vibration treatments.

11. Kinesiology taping.

Appendix G. Allowable Treatments

1. Massage, deep massage/acupressure using digital (hand/finger) pressure only.
2. The use of instruments commonly known 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.