

Association of Racing Commissioners International, Inc.
Drug Testing Standards and Practices Program
Model Rules Guidelines

Table 178-1 D



Uniform Classification Guidelines for Foreign Substances and Recommended Penalties and Model Rule

Association of Racing Commissioners International, Inc.
Uniform Classification Guidelines for Foreign Substances

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Preamble to the Uniform Classification Guidelines of Foreign Substances

The Preamble to the Uniform Classification Guidelines was approved by the RCI Drug Testing and Quality Assurance Program Committee (now the Drug Testing Standards and Practices Program Committee) on August 26, 1991. Minor revisions to the Preamble were made by the Drug Classification subcommittee (now the Veterinary Pharmacologists Subcommittee) on September 3, 1991.

"The Uniform Classification Guidelines printed on the following pages are intended to assist stewards, hearing officers and racing commissioners in evaluating the seriousness of alleged violations of medication and prohibited substance rules in racing jurisdictions. Practicing equine veterinarians, state veterinarians, and equine pharmacologists are available and should be consulted to explain the pharmacological effects of the drugs listed in each class prior to any decisions with respect to penalties to be imposed. The ranking of drugs is based on their pharmacology, their ability to influence the outcome of a race, whether or not they have legitimate therapeutic uses in the racing horse, or other evidence that they may be used improperly. These classes of drugs are intended only as guidelines and should be employed only to assist persons adjudicating facts and opinions in understanding the seriousness of the alleged offenses. The facts of each case are always different and there may be mitigating circumstances which should always be considered. These drug classifications will be reviewed frequently and new drugs will be added when appropriate."

Notes Regarding Classification Guidelines

- Where the use of a drug is specifically permitted by a jurisdiction, then the jurisdiction's rule supersedes these penalty guidelines.
- Regulators should be aware that a laboratory report may identify a drug only by the name of its metabolite. The metabolite might not be listed here, but the parent compound may be.
- These classes of drugs are intended only as guidelines and should be employed only to assist persons adjudicating facts and opinions in understanding the seriousness of the alleged offenses.
- The facts of each case are different and there may be mitigating circumstances that should be considered.
- These drug classifications will be reviewed periodically. New drugs will be added or some drugs may be reclassified when appropriate.
- **Found substances or drugs not included in these guidelines should be treated as Class 1 violations warranting a Class A penalty unless otherwise advised by consultation with Racing Commissioners International (RCI) and/or the Racing Medication and Testing Consortium (RMTC).**

Classification Criteria

The RCI Drug Classification Scheme is based on 1) pharmacology, 2) drug use patterns, and 3) the appropriateness of a drug for use in the racing horse. Categorization is decided using the following general guidelines:

- **Pharmacology.** Drugs that are known to be potent stimulants or depressants are placed in higher classes, while those that have (or would be expected to have) little effect on the outcome of a race are placed in lower classes.
- **Drug Use Patterns.** Some consideration is given to placement of drugs based on practical experience with their use and the nature of positive tests. For example, procaine positives have in the past been associated primarily with the administration of procaine penicillin, and this has been taken into consideration in the placement of procaine into Class 3 instead of Class 2 with other injectable local anesthetics.
- **Appropriateness of Drug Use.** Drugs that clearly are intended for use in equine therapeutics are placed in lower classes. Drugs that clearly are not intended for use in the horse are placed in higher classes, particularly if they might affect the outcome of a race. Drugs that are recognized as legitimately useful in equine therapeutics but could affect the outcome of a race are placed in the middle or higher classes.

The list includes most drugs that have been reported as detected by racing authority laboratories in the United States, Canada, the United Kingdom and other Association of Official Racing Chemists (AORC) laboratories, but does not include those which would seem to have no effect on the performance of the horse or drug detectability. For example, it does not include antibiotics, sulfonamides, vitamins, anthelmintics, or pangamic acid, all of which have been reported.

The list contains many drugs that have never been reported as detected. Usually, these are representatives of chemical classes that have the potential for producing an effect, and in many cases, for which at least one drug in that chemical class has been reported.

Most drugs have numerous effects, and each was judged on an individual basis. There are instances where there is a rather fine distinction between drugs in one category and those in the next. This is a reflection of a nearly continuous spectrum of effects from the most innocuous drug on the list to the drug that is the most offensive.

Classification Definitions

- **Class 1:** Stimulant and depressant drugs that have the highest potential to affect performance and that have no generally accepted medical use in the racing horse. Many of these agents are Drug Enforcement Agency (DEA) schedule II substances. These include the following drugs and their metabolites: Opiates, opium derivatives, synthetic opioids and psychoactive drugs, amphetamines and amphetamine-like drugs as well as related drugs, including but not limited to apomorphine, nikethamide, mazindol, pemoline, and pentylentetrazol. Though not used as therapeutic agents, all DEA Schedule 1 agents are included in Class 1 because they are potent stimulant or depressant substances with psychotropic and often habituating actions.
- **Class 2:** Drugs that have a high potential to affect performance, but less of a potential than drugs in Class 1. These drugs are 1) not generally accepted as therapeutic agents in racing horses, or 2) they are therapeutic agents that have a high potential for abuse. Drugs in this class include: psychotropic drugs, certain nervous system and cardiovascular system stimulants, depressants, and neuromuscular blocking agents. Injectable local anesthetics are included in this class because of their high potential for abuse as nerve blocking agents.
- **Class 3:** Drugs that may or may not have generally accepted medical use in the racing horse, but the pharmacology of which suggests less potential to affect performance than drugs in Class 2. Drugs in this class include bronchodilators, anabolic steroids and other drugs with primary effects on the autonomic nervous system, procaine, antihistamines with sedative properties and the high-ceiling diuretics.
- **Class 4:** This class includes therapeutic medications that would be expected to have less potential to affect performance than those in Class 3. Drugs in this class includes less potent diuretics; corticosteroids; antihistamines and skeletal muscle relaxants without prominent central nervous system (CNS) effects; expectorants and mucolytics; hemostatics; cardiac glycosides and anti-arrhythmics; topical anesthetics; antidiarrheals and mild analgesics. This class also includes the non-steroidal anti-inflammatory drugs (NSAIDs), at concentrations greater than established limits.
- **Class 5:** This class includes those therapeutic medications for which concentration limits have been established by the racing jurisdictions as well as certain miscellaneous agents and other medications as determined by the regulatory bodies. Included specifically are agents that have very localized actions only, such as anti-ulcer drugs, and certain anti-allergic drugs. The anticoagulant drugs are also included.

- **Prohibited Practices:**

- A) The possession and/or use of a drug, substance or medication, specified below, on the premises of a facility under the jurisdiction of the regulatory body for which a recognized analytical method has not been developed to detect and confirm the administration of such substance; or the use of which may endanger the health and welfare of the horse or endanger the safety of the rider or driver; or the use of which may adversely affect the integrity of racing:
 - 1) Erythropoietin
 - 2) Darbepoietin
 - 3) Oxyglobin
 - 4) Hemopure
- B) The possession and/or use of a drug, substance, or medication on the premises of a facility under the jurisdiction of the regulatory body that has not been approved by the United States Food and Drug Administration (FDA) for use in the United States.
- C) The practice, administration, or application of a treatment, procedure, therapy or method identified below, which is performed on the premises of a facility under jurisdiction of a regulatory body and which may endanger the health and welfare of the horse or endanger the safety of the rider or driver, or the use of which may adversely affect the integrity of racing:

Drug Classification Scheme

- **Class 1:** Opiates, opium derivatives, synthetic opioids, psychoactive drugs, amphetamines, and all DEA Schedule I substances (see <http://www.deadiversion.usdoj.gov/schedules/#list>), and many DEA Schedule II drugs. Also found in this class are drugs that are potent stimulants of the CNS. Drugs in this class have no generally accepted medical use in the racing horse and their pharmacologic potential for altering the performance of a racing horse is very high.

- **Class 2:** Drugs placed in this category have a high potential for affecting the outcome of a race. Most are not generally accepted as therapeutic agents in the racing horse. Many are products intended to alter consciousness or the psychic state of humans, and have no approved or indicated use in the horse. Some, such as injectable local anesthetics, have legitimate use in equine medicine, but should not be found in a racing horse. The following groups of drugs are placed in this class:
 - A. Opiate partial agonists, or agonist-antagonists.
 - B. Non-opiate psychotropic drugs. These drugs may have stimulant, depressant, analgesic or neuroleptic effects.
 - C. Miscellaneous drugs, which might have a stimulant effect on the CNS.
 - D. Drugs with prominent CNS depressant action.
 - E. Anti-depressant and antipsychotic drugs, with or without prominent CNS stimulatory or depressant effects.
 - F. Muscle blocking drugs - those that have a direct neuromuscular blocking action.
 - G. Local anesthetics that have a reasonable potential for use as nerve-blocking agents (except procaine).
 - H. Snake venoms and other biologic substances that may be used as nerve-blocking agents.

- **Class 3:** Drugs placed in this class may or may not have an accepted therapeutic use in the horse. Many are drugs that affect the cardiovascular, pulmonary and autonomic nervous systems. They all have the potential of affecting the performance of a racing horse. The following groups of drugs are placed in this class:
 - A. Drugs affecting the autonomic nervous system that do not have prominent CNS effects, but which do have prominent cardiovascular or respiratory system effects. Bronchodilators are included in this class.
 - B. A local anesthetic that has nerve-blocking potential but also has a high potential for producing urine residue levels from a method of use not related to the anesthetic effect of the drug (procaine).
 - C. Miscellaneous drugs with mild sedative action, such as the sleep-inducing antihistamines.
 - D. Primary vasodilating/hypotensive agents.
 - E. Potent diuretics affecting renal function and body fluid composition.
 - F. Anabolic and/or androgenic steroids and other drugs.

- **Class 4:** Drugs in this category comprise primarily therapeutic medications routinely used in racehorses. These may influence performance, but generally have a more limited ability to do so. Groups of drugs assigned to this category include the following:
 - A. Non-opiate drugs that have a mild central antipyretic effect.
 - B. Drugs affecting the autonomic nervous system that do not have prominent CNS, cardiovascular, or respiratory effects:
 - 1. Drugs used solely as topical vasoconstrictors or decongestants.
 - 2. Drugs used as gastrointestinal antispasmodics.
 - 3. Drugs used to void the urinary bladder.
 - 4. Drugs with a major effect on CNS vasculature or smooth muscle of visceral organs.
 - C. Antihistamines that do not have a significant CNS depressant effect. This does not include the H2 blocking agents, which are in Class 5.
 - D. Mineralocorticoid drugs.
 - E. Skeletal muscle relaxants.
 - F. Anti-inflammatory drugs. These drugs may reduce pain as a consequence of their anti-inflammatory action.
 - 1. Non-steroidal anti-inflammatory drugs (NSAIDs). (Aspirin-like drugs).
 - 2. Corticosteroids (glucocorticoids).
 - 3. Miscellaneous anti-inflammatory agents.
 - G. Less potent diuretics.
 - H. Cardiac glycosides and antiarrhythmic agents.
 - 1. Cardiac glycosides.
 - 2. Antiarrhythmic agents (exclusive of lidocaine, bretylium, and propranolol).
 - 3. Miscellaneous cardiotoxic drugs.
 - I. Topical Anesthetics - agents not available in injectable formulations.
 - J. Antidiarrheal drugs.
 - K. Miscellaneous drugs:
 - 1. Expectorants with little or no other pharmacologic action.
 - 2. Stomachics.
 - 3. Mucolytic agents.

- **Class 5:** Drugs in this category are therapeutic medications for which concentration limits have been established by the racing jurisdictions as well as certain miscellaneous agents. Included specifically are agents that have very localized actions only, such as anti-ulcer drugs, and certain antiallergic drugs. The anticoagulant drugs are also included.

Alphabetical Substance List

Drug/Substance	Trade Name(s)	Drug Class	Penalty Class
2-Aminoheptane	Tuamine	4	B
3,4-methylenedioxypropylprovalerone	MDPV, "bath salts"	1	A
3-Methoxytyramine	3-MT	2	A
Acebutolol	Sectral	3	B
Acecarbromal		2	A
Acenocoumarol		5	C
Acepromazine	Atrovet, Notensil, PromAce®	3	B
Acetaminophen (Paracetamol)	Tylenol, Tempra, etc.	4	C
Acetanilid		4	B
Acetazolamide	Diamox, Vetamox	4	B
Acetophenazine	Tindal	2	A
Acetophenetidin (Phenacetin)		4	B
Acetylsalicylic acid (Aspirin)		4	C
Alclomethasone	Aclovate	4	C
Adinazolam		2	A
Adrenochrome monosemicarbazone salicylate		4	B
Albuterol (Salbutamol)	Proventil, Ventolin	3	B
Alclofenac		2	A
Alcuronium	Alloferin	2	A
Aldosterone	Aldocortin, Electro cortin	4	B
Alfentanil	Alfenta	1	A
Almotriptan	Axert	3	A
Alphaprodine	Nisentil	2	A
Alpidem	Anaxyl	2	A
Alprazolam	Xanax	2	A
Alprenolol		3	A
Althesin	Saffan	2	A
Ambenonium	Mytelase, Myeuran	3	B
Ambroxol	Ambril, etc.	4	C
Amcinonide	Cyclocort	4	C
Amiloride	Moduretic, Midamor	4	B
Aminocaproic acid	Amicar, Caprocid	4	C
Amiodarone		4	B
Aminophylline	Aminophyllin, etc.	3	B
Aminopyrine		4	B
Aminorex	Aminoxafen, Aminoxaphen, Apiquel, McN-742, Menocil	1	A
Amisometradine	Rolictron	4	B

Drug/Substance	Trade Name(s)	Drug Class	Penalty Class
Amisulpride	Solian	2	A
Amitraz	Mitaban	3	A
Amitriptyline	Elavil, Amitril, Endep	2	A
Amlodipine	Ammivin, Norvasc	3	B
Amobarbital	Amytal	2	A
Amoxapine	Asendin	2	A
Amperozide		2	A
Amphetamine		1	A
Amrinone		4	B
Amyl nitrite		3	A
Anileridine	Leritine	1	A
Anilopam	Anisine	2	A
Anisindione		5	C
Anisotropine	Valpin	4	B
Antipyrine		4	B
Apazone (Azapropazone)	Rheumox	4	B
Apomorphine		1	A
Aprindine		4	B
Aprobarbital	Alurate	2	A
Arecoline		3	A
Arformoterol		3	A
Articaine	Septocaine; Ultracaine, etc.	2	A
Atenolol	Tenormin	3	B
Atomoxetine	Strattera	2	A
Atracurium	Tracrium	2	A
Atropine		3	B
Azacylonol	Frenque	2	A
Azaperone	Stresnil, Suicalm, Fentaz (with Fentanyl)	2	A
Baclofen	Lioresal	4	B
Barbital	Veronal	2	A
Barbiturates		2	A
Beclomethasone	Propaderm	4	C
Bemegride	Megimide, Mikedimide	2	A
Benazepril	Lotrel, Lotensin	3	B
Bendroflumethiazide	Naturetin	4	B
Benoxaprofen		2	A
Benoxinate	Dorsacaine	4	C
Benperidol	Anquil	2	A
Bentazepam	Tiadipona	2	A

Alphabetical Substance List (Cont)

Drug/Substance	Trade Name(s)	Drug Class	Penalty Class
Benzactizine	Deprol, Bronchodiletten	2	A
Benzocaine		4	B
Benzocetamine		2	A
Benzodiazepines		2	A
Benzonatate	Tessalon, Tessalon Perles, Zonatuss	2	A
Benzphetamine	Didrex	2	A
Benzthiazide		4	B
Benztropine	Cogentin	2	A
Benzylpiperazine (BZP)		1	A
Bepidil	Bepadin	4	B
Betamethasone	Betasone, etc.	4	C
Betaxolol	Kerlone	3	B
Bethanechol	Urecholine, Duvoid	4	C
Bethanidine	Esbatal	3	A
Biperiden	Akineton	3	A
Biriperone		2	A
Bisoprolol	Zebeta, Bisobloc, etc.	3	B
Bitolterol	Effectin	3	A
Bolasterone		3	A
Boldenone	Equipoise	3	B
Boldione		3	A
Bretylum	Bretylol	3	B
Brimonidine	Alphagan	2	A
Bromazepam	Lexotan, Lectopam	2	A
Bromfenac	Duract	3	A
Bromhexine	Oletor, etc.	4	B
Bromisovalum	Diffucord, etc.	2	A
Bromocriptine	Parlodel	2	A
Bromodiphenhydramine		3	B
Bromperidol	Bromidol	2	A
Brompheniramine	Dimetane, Disomer	4	B
Brotizolam	Brotocol	2	A
Budesonide	Pulmacort, Rhinocort	4	C
Bufexamac		3	A
Bumetanide	Bumex	3	B
Bupivacaine	Marcaine	2	A
Buprenorphine	Temgesic	2	A
Bupropion	Wellbutrin	2	A
Buspiron	Buspar	2	A
Butabarbital (Secbutobarbitone)	Butacaps, Butasol, etc.	2	A
Butacaine	Butyn	4	B
Butalbital (Talbutal)	Fiorinal	2	A
Butamben (butyl aminobenzoate)	Butesin	4	C
Butanilicaine	Hostacain	2	A

Drug/Substance	Trade Name(s)	Drug Class	Penalty Class
Butaperazine	Repoise	2	A
Butoctamide	Listomin	2	A
Butorphanol	Stadol, Torbugesic	3	B
Butoxycaine	Stadacain	4	B
N-Butylscopolamine		3	B
Caffeine		2	B
Calusterone	Methosorb	3	B
Camazepam	Paxor	2	A
Camphor		4	C
Candesartan	Atcand	3	B
Captodiamine	Covatine	2	A
Captopril	Capolen	3	B
Carazolol	Carbacef, Conducton	3	A
Carbachol	Lentin, Doryl	3	B
Carbamezapine	Tegretol	3	B
Carbazochrome		4	C
Carbidopa + levodopa	Sinemet	2	A
Carbinoxamine	Clistin	3	B
Carbromol	Mifudorm	2	A
Carfentanil		1	A
Carisoprodol	Rela, Soma	2	B
Carphenazine	Proketazine	2	A
Carpipramine	Prazinil	2	A
Carprofen	Rimadyl	4	B
Carteolol	Cartrol	3	B
Carticaine (see articaine)	Septocaine; Ultracaine, etc.	2	A
Carvedilol	Coreg	3	B
Cathinone	khat, kat, qat, quat, chat, catha, Abyssinian tea, African tea	1	A
Celecoxib	Celebrex	3	B
Cetirizine	Zyrtec	4	C
Chloral betaine	Beta-Chlor	2	A
Chloral hydrate	Nactec, Oridrate, etc.	2	A
Chloraldehyde (chloral)		2	A
Chloralose (Alpha-Chloralose)		2	A
Chlordiazepoxide	Librium	2	A
Chlorhexidol		2	A
Chlormerodrin	Neohydrin	4	B
Chlormezanone	Trancopal	2	A
Chloroform		2	A
Chlorophenesin	Maolate	4	C
Chloroprocaine	Nesacaine	2	A
Chloroquine	Avloclor	4	C
Chlorothiazide	Diuril	4	B

Alphabetical Substance List (Cont)

Drug/Substance	Trade Name(s)	Drug Class	Penalty Class
Chlorpheniramine	Chlortrimeton, etc.	4	B
Chlorproethazine	Newiplege	2	A
Chlorpromazine	Thorazine, Largactil	2	A
Chlorprothixene	Taractan	2	A
Chlorthalidone	Hydroton	4	B
Chlorzoxazone	Paraflex	4	B
Ciclesonide		4	B
Cilostazol	Pletal	5	C
Cimeterol		3	A
Cimetidine	Tagamet	5	D
Cinchocaine	Nupercaine	4	C
Citalopram	Celex	2	A
Clanobutin		4	B
Clemastine	Tavist	3	B
Clenbuterol	Ventipulmin	3	B
Clibucaine	Batrax	4	C
Clidinium	Quarezan, Clindex, etc.	3	B
Clobazam	Urbanyl	2	A
Clobetasol	Temovate	4	C
Clocapramine		2	A
Clocortolone	Cloderm	4	C
Clofenamide		4	B
Clomethiazole (Chlormethiazole)		2	A
Clomipramine	Anafranil	2	A
Clonazepam	Klonopin	2	A
Clonidine	Catapres	3	B
Clorazepate	Tranxene	2	A
Clormecaine	Placacid	4	C
Clostebol		3	B
Clothiapine	Entermin	2	A
Clotiazepam	Trecalmo, Rize	2	A
Cloxacolam	Enadel, Sepazon, Tolestan	2	A
Clozapine	Clozaril, Leponex	2	A
Cobalt		3	B ¹
a-Cobratoxin		1	A
Cocaine ²		1	B ²
Codeine		1	A
Colchicine		4	B
Conorphone		2	A

¹ For cobalt concentrations of less than 25 parts per billion (ppb) of blood serum or plasma no penalty is recommended. For concentrations of 25 ppb or greater but less than 50 ppb of blood plasma or serum the recommended penalty is a written warning, the placement of the horse on the Veterinarians List with removal from list only after a blood test confirms that the concentration is below 25 ppb of blood plasma or serum. Testing shall be paid by the owner(s) of the horse. Concentrations of 50 ppb or greater in blood plasma or serum have a recommended "B" penalty.

Drug/Substance	Trade Name(s)	Drug Class	Penalty Class
Corticaine	Ultracain	2	A
Cortisone	Cortone, etc.	4	C
Cromolyn	Intel	5	C
Crotetamide		2	A
Cyamemazine	Tercian	2	A
Cyclandelate	Cyclospasmol	3	A
Cyclizine	Merazine	4	B
Cyclobarbitol	Phanodorm	2	A
Cyclobenzaprine	Flexeril	4	B
Cyclomethylcaine	Surfacaine	4	C
Cyclothiazide	Anhydron, Renazide	4	B
Cycrimine	Pagitane	3	B
Cyproheptadine	Periactin	4	C
Danazol	Danocrine	3	B
Dantrolene	Dantrium	4	C
Darbepoetin	Aranesp	2	A
Decamethonium	Syncurine	2	A
Dehydrochloromethyltestosterone		3	B
Dembroxol (Dembrexine)	Sputolysin	4	C
Demoxepam		2	A
Deoxycorticosterone	Percortin, DOCA, Descotone, Dorcostrin	4	C
Deracoxib	Deremaxx	3	B
Dermorphin		1	A
Desipramine	Norpromine, Pertofrane	2	A
Desonite	Des Owen	4	C
Desoximetasone	Topicort	4	C
Desoxymethyltestosterone		3	B
Detomidine	Dormosedan	3	B
Dexamethasone	Azium, etc.	4	C
Dextromethorphan		4	B
Dextromoramide	Palfium, Narcolo	1	A
Dextropropoxyphene	Darvon	3	B
Dezocine	Dalgan	2	A
Diamorphine		1	A
Diazepam	Valium	2	B
Diazoxide	Proglycem	3	B
Dibucaine	Nupercainal, Cinchocaine	4	C
Dichloralphenazone	Febenol, Isocom	2	A

² Penalty class "A" recommended if regulators can prove an intentional administration.

Alphabetical Substance List (Cont)

Drug/Substance	Trade Name(s)	Drug Class	Penalty Class
Dichlorphenamide	Daramide	4	C
Diclofenac	Voltaren, Voltarol	4	C
Dicumarol	Dicumarol	5	C
Diethylpropion	Tepanil, etc.	2	A
Diethylthiambutene	Themalon	2	A
Diflorasone	Florone, Maxiflor	4	C
Diflucortolone	Flu-Cortinest, etc.	4	C
Diflunisal		3	B
Digitoxin	Crystodigin	4	B
Digoxin	Lanoxin	4	B
Dihydrocodeine	Parcodin	2	A
Dihydroergotamine		4	B
Dilorazepam	Briantum	2	A
Diltiazem	Cardizem	4	B
Dimeflin		3	A
Dimethisoquin	Quotane	4	B
Dimethylsulfoxide (DMSO)	Domoso	4	C
Dimethylsulphone (MSM)		5	C
Diphenadione		5	C
Diphenhydramine	Benadryl	3	B
Diphenoxylate	Difenoxin, Lomotil	4	B
Diprenorphine	M50/50	2	A
Dipyridamole	Persantine	3	B
Dipyrrone	Novin, Methampyrone	4	C
Disopyramide	Norpace	4	B
Divalproex	Depakote	3	A
Dixyrazine	Esucos	2	A
Dobutamine	Dobutrex	3	B
Dopamine	Intropin	2	A
Donepezil	Aricept	1	A
Doxacurium	Nuromax	2	A
Doxapram	Dopram	2	A
Doxazosin		3	A
Doxefazepam	Doxans	2	A
Doxepin	Adapin, Sinequan	2	A
Doxylamine	Decapryn	3	B
Dromostanolone	Drolban	3	B
Droperidol	Inapsine, Droleptan, Innovar-Vet (with Fentanyl)	2	A
Duloxetine		2	A
Dyclonine	Dyclone	4	C
Dyphylline		3	B
Edrophonium	Tensilon	3	B
Eletripan	Relpax	3	A

Drug/Substance	Trade Name(s)	Drug Class	Penalty Class
Eltenac		4	C
Enalapril (metabolite enalaprilat)	Vasotec	3	B
Enciprazine		2	A
Endorphins		1	A
Enkephalins		1	A
Ephedrine		2	A
Epibatidine		2	A
Epinephrine		2	A
Ergoloid mesylates (dihydroergocornine mesylate, dihydroergocristine mesylate, and dihydroergocryptine mesylate)		2	A
Ergonovine	Ergotrate	4	C
Ergotamine	Gynergen, Cafergot, etc.	4	B
Erthrityl tetranitrate	Cardilate	3	A
Erythropoietin (EPO)	Epogen, Procrit, etc.	2	A
Esmolol	Brevibloc	3	B
Esomeprazole	Nexium	5	D
Estazolam	Domnamid, Eurodin, Nuctalon	2	A
Etamiphylline		3	B
Etanercept	Enbrel	4	B
Ethacrynic acid	Edecrin	3	B
Ethamivan		2	A
Ethanol		2	A
Ethchlorvynol	Placidyl	2	A
Ethinamate	Valmid	2	A
Ethoheptazine	Zactane	4	B
Ethopropazine	Parsidol	2	A
Ethosuximide	Zarontin	3	A
Ethotoin	Peganone	4	B
Ethoxzolamide	Cardrase, Ethamide	4	C
Ethylaminobenzoate (Benzocaine)	Semets, etc.	4	C
Ethylestrenol	Maxibolin, Organon	3	B
Ethylisobutrazine	Diquel	2	A
Ethylmorphine	Dionin	1	A
Ethylnorepinephrine	Bronkephrine	3	A
Etidocaine	Duranest	2	A
Etifoxin	Stresam	2	A
Etizolam	Depas, Pasaden	2	A
Etodolac	Lodine	3	B
Etodroxizine	Indunox	2	A
Etomidate		2	A
Etorphine HCl	M99	1	A
Famotidine	Gaster, etc.	5	D

Alphabetical Substance List (Cont)

Drug/Substance	Trade Name(s)	Drug Class	Penalty Class
Felbamate	Felbatol	3	A
Felodipine	Plendil	4	B
Fenarbamate	Tymium	2	A
Fenbufen	Cincopal	3	B
Fenclozic acid	Myalex	2	A
Fenfluramine	Pondimin	2	A
Fenoldopam	Corlopam	3	B
Fenoprofen	Nalfon	3	B
Fenoterol	Berotec	3	B
Fenspiride	Respiride, Respan, etc	3	B
Fentanyl	Sublimaze	1	A
Fentiazac		3	B
Fexofenadine	Allegra	4	C
Firocoxib		4	C
Flecainide	Idalon	4	B
Floctafenine	Idalon, Idarac	4	B
Fluanisone	Sedalande	2	A
Flucinolone	Synalar, etc.	4	C
Fludiazepam	Erispam	2	A
Fludrocortisone	Alforone, etc.	4	C
Flufenamic acid		3	B
Flumethasone	Flucort, etc.	4	C
Flumethiazide	Ademol	4	B
Flunarizine	Sibelium	4	B
Flunisolide	Bronilide, etc.	4	C
Flunitrazepam	Rohypnol, Narcozep, Darkene, Hypnodorm	2	A
Flunixin	Banamine	4	C*
Fluocinolone	Synalar	4	C
Fluocinonide	Licon, Lidex	4	C
Fluopromazine	Psyquil, Siquil	2	A
Fluoresone	Caducid	2	A
Fluorometholone	FML	4	B
Fluoroprednisolone	Predef-2X	4	C
Fluoxetine	Prozac	2	A
Fluoxymesterone	Halotestin	3	B
Flupenthixol	Depixol, Fluaxol	2	A
Fluphenazine	Prolixin, Permitil, Anatensol, etc.	2	A
Flupirtine	Katadolone	3	A
Fluprednisolone	Alphadrol	4	C
Flurandrenolide	Cordran	4	C
Flurazepam	Dalmane	2	A
Flurbiprofen	Froben	3	B
Fluspirilene	Imap, Redeptin	2	A

Drug/Substance	Trade Name(s)	Drug Class	Penalty Class
Fluticasone	Flixonase, Flutide	4	C
Flutoprazepam	Restas	2	A
Fluvoxamine	Dumirox, Faverin, etc.	2	A
Formebolone		3	B
Formoterol	Altram	3	B
Fosinopril	Monopril	3	A
Fosphenytoin	Cerebyx	3	B
Furazabol		3	B
Furosemide	Lasix	N/A	
Gabapentin	Neurontin	3	B
Galantamine	Reminyl	2	A
Gallamine	Flaxedil	2	A
Gamma Aminobutyric Acid (GABA)	Carolina Gold	3	B
Gepirone		2	A
Gestrinone		3	A
Glutethimide	Doriden	2	A
Glycopyrrolate	Robinul	3	B
Guaifenesin (glycerol guiacolate)	Gecolate	4	C
Guanadrel	Hylarel	3	A
Guanethidine	Ismelin	3	A
Guanabenz	Wytensin	3	B
Halazepam	Paxipam	2	A
Halcinonide	Halog	4	C
Halobetasol	Ultravate	4	C
Haloperidol	Haldol	2	A
Haloxazolam	Somelin	2	A
Hemoglobin glutamers	Oxyglobin Hemopure	2	A
Heptaminol	Corofundol	3	B
Heroin		1	A
Hexafluorenum	Myalexen	2	A
Hexobarbital	Evipal	2	A
Hexocyclium	Tral	4	B
Hexylcaine	Cyclaine	4	C
Homatropine	Homapin	3	B
Homophenazine	Pelvichthol	2	A
Hydralazine	Apresoline	3	B
Hydrochlorothiazide	Hydrodiuril	4	B
Hydrocodone (dihydrocodienone)	Hycodan	1	A
Hydrocortisone (Cortisol)	Cortef, etc.	4	C
Hydroflumethiazide	Saluron	4	B
Hydromorphone	Dilaudid	1	A
Hydroxyamphetamine	Paradrine	1	A
4-Hydroxytestosterone		3	B
Hydroxyzine	Atarax	2	B
Ibomal	Noctal	2	A

Alphabetical Substance List (Cont)

Drug/Substance	Trade Name(s)	Drug Class	Penalty Class
Ibuprofen	Motrin, Advil, Nurpin, etc.	4	C
Ibutilide	Corvert	3	B
Iloprost	Ventavis	3	A
Imipramine	Imavate, Presamine, Tofranil	2	A
Indomethacin	Indocin	3	B
Infliximab	Remicade	4	B
Ipratropium		3	B
Irbesarten	Avapro	3	A
Isapirone		2	A
Isocarboxazid	Marplan	2	A
Isoetharine	Bronkosol	3	B
Isoflupredone	Predef	4	C
Isomethadone		2	A
Isometheptene	Octin, Octon	4	B
Isopropamide	Darbid	4	B
Isoproterenol	Isoprel	2	A
Isosorbide dinitrate	Isordil	3	B
Isoxicam	Maxicam	2	A
Isoxsuprine	Vasodilan	4	C
Isradipine	DynaCirc	4	B
Kebuzone		3	B
Ketamine	Ketalar, Ketaset, Vetalar	2	B
Ketazolam	Anxon, Laftram, Solatran, Loftran	2	A
Ketoprofen	Orudis	4	C*
Ketorolac	Toradol	3	A
Labetalol	Normodyne	3	B
Lamotrigine	Lamictal	3	A
Lansoprazole		5	D
Lenperone	Elanone-V	2	A
Letosteine	Viscotiol, Visiotal	4	C
Levamisole		2	B
Levobunolol	Betagan	3	B
Levomethorphan		2	A
Levorphanol	Levo-Dremoran	1	A
Lidocaine	Xylocaine	2	B
Lisinopril	Prinivil, Zestril	3	A
Lithium	Lithizine, Duralith, etc.	2	A
Lobeline		2	A
Lofentanil		1	A
Loflazepate, Ethyl	Victan	2	A
Loperamide	Imodium	2	A
Loprazolam	Dormonort, Havlane	2	A
Loratidine	Claritin	4	B

Drug/Substance	Trade Name(s)	Drug Class	Penalty Class
Lorazepam	Ativan	2	A
Lormetazepam	Noctamid	2	A
Losartan	Hyzaar	3	B
Loxapine	Laxitane	2	A
Mabuterol		3	A
Maprotiline	Ludiomil	2	A
Mazindol	Sanorex	1	A
Mebutamate	Axiten, Dormate, Capla	2	A
Mecamylamine	Inversine	3	B
Mecizine	Antivert, Bonine	4	B
Meclofenamic acid	Arquel	4	C
Meclofenoxate	Lucidril, etc.	2	A
Medazepam	Nobrium, etc.	2	A
Medetomidine	Domitor	3	B
Medrysone	Medriusar, etc.	4	C
Mefenamic acid	Ponstel	3	B
Meloxicam	Mobic	4	B
Melperone	Eunerpan	2	A
Memantine	Namenda	2	A
Meparfynol	Oblivon	2	A
Mepazine	Pacatal	2	A
Mepenzolate	Cantil	3	A
Meperidine	Demerol	1	A
Mephesisin	Tolserol	4	B
Mephenoalone	Control, etc.	2	A
Mephentermine	Wyamine	1	A
Mephénytoin	Mesantoin	2	A
Mephobarbital (Methylphenobarbital)	Mebaral	2	A
Mepivacaine	Carbocaine	2	B
Meproamate	Equanil, Miltown	2	A
Meralluride	Mercuhydrin	4	B
Merbaphen	Novasural	4	B
Mercaptomerin	Thiomerin	4	B
Mercumalilin	Cumertilin	4	B
Mersalyl	Salyrgan	4	B
Mesalamine	Asacol	5	C
Mesoridazine	Serentil	2	A
Mestanolone		3	B
Mesterolone		3	B
Metaclazepam	Talis	2	A
Metaproterenol	Alupent, Metaprel	3	B
Metaraminol	Aramine	1	A
Metaxalone	Skelaxin	4	B
Metazocine		2	A

Alphabetical Substance List (Cont)

Drug/Substance	Trade Name(s)	Drug Class	Penalty Class
Metenolone		3	B
Methacholine		3	A
Methadone	Dolophine	1	A
Methamphetamine	Desoxyn	1	A ³
Methandienone		3	B
Methandriol	Proboloc	3	B
Methandrostenolone	Dianabol	3	A
Methantheline	Banthine	3	B
Methapyrilene	Histadyl, etc.	4	B
Methaqualone	Quaalude	1	A
Metharbital	Gemonil	2	A
Methasterone		3	A
Methazolamide	Naptazane	4	C
Methcathinone		1	A
Methdilazine	Tacaryl	4	B
Methixene	Trest	3	A
Methocarbamol	Robaxin	4	C
Methohexital	Brevital	2	A
Methotrexate	Folex, Nexate, etc.	4	B
Methotrimeprazine	Levoprome, Neurocil, etc.	2	A
Methoxamine	Vasoxyl	3	A
Methoxyphenamine	Orthoxide	3	A
Methscopolamine	Pamine	4	B
Methsuximide	Celontin	3	A
Methylatropine		3	B
Methylchlorothiazide	Enduron	4	B
Methyldienolone		3	B
Methyldopa	Aldomet	3	A
Methylhexanamine (Methylhexaneamine)	Geranamine	1	A
Methylergonovine	Methergine	4	C
Methylnortestosterone		3	B
Methylphenidate	Ritalin	1	A
Methylprednisolone	Medrol	4	C
Methyltestosterone	Metandren	3	A
Methyl-1-testosterone		3	A
Methypylon	Noludar	2	A
Methysergide	Sansert	4	B
Metiamide		4	B
Metoclopramide	Reglan	4	C
Metocurine	Metubine	2	A
Metolazone		3	B

³ Recommended Penalty B if testing can prove presence of only levo-methamphetamine is present in sample.

Drug/Substance	Trade Name(s)	Drug Class	Penalty Class
Metomidate	Hypnodil	2	A
Metopon (methyldihydromorphinone)		1	A
Metoprolol	Lopressor	3	B
Mexazolam	Melex	2	A
Mexilitine	Mexilil	4	B
Mibefradil	Posicor	3	B
Mibolerone		3	B
Midazolam	Versed	2	A
Midodrine	Pro-Amiline	3	B
Milrinone		4	B
Minoxidil	Loniten	3	B
Mirtazepine	Remeron	2	A
Misoprostel	Cytotec	5	C
Mivacurium	Mivacron	2	A
Modafinil	Provigil	2	A
Moexipril (metabolite, moexiprilat)	Uniretic	3	B
Molindone	Moban	2	A
Mometasone	Elocon	4	C
Montelukast	Singulair	4	C
Moperone	Luvatrex	2	A
Morphine ⁴		1	B ⁴
Mosaprimine		2	A
Muscarine		3	A
myo-inositol trispyrophosphate (ITPP)		1	A
Nabumetone	Anthraxan, Relafen, Reliflex	3	A
Nadolol	Corgard	3	B
Naepaine	Amylsine	4	C
Nalbuphine	Nubain	2	A
Nalorphine	Nalline, Lethidrone	2	A
Naloxone	Narcan	3	A
Naltrexone	Revia	3	A
Nandrolone	Nandrolin, Laurabolin, Durabolin	3	B
Naphazoline	Privine	4	B
Naproxen	Equiproxen, Naprosyn	4	C
Naratriptan	Amerge	3	B
Nebivolol		3	A
Nedocromil	Tilade	5	C
Nefazodone	Serzone	2	A
Nefopam		3	A

⁴ Penalty class "A" recommended if regulators can prove an intentional administration.

Alphabetical Substance List (Cont)

Drug/Substance	Trade Name(s)	Drug Class	Penalty Class
Neostigmine	Prostigmine	3	B
Nicardipine	Cardine	4	B
Nifedipine	Procardia	4	B
Niflumic acid	Nifluril	3	B
Nikethamide	Coramine	1	A
Nimesulide		3	B
Nimetazepam	Erimin	2	A
Nimodipine	Nemotop	4	B
Nitrazepam	Mogadon	2	A
Nitroglycerin		3	B
Nizatidine	Axid	5	C
19-Norandrostenediol		3	B
19-Norandrostenedione		3	B
Norbolethone		3	B
Norclostebol		3	B
Nordiazepam	Calmday, Nordaz, etc.	2	A
Norepinephrine		2	A
Norethandrolone		3	A
Nortestosterone		4	C
Nortriptyline	Aventyl, Pamelor	2	A
Nylidrine	Arlidin	3	A
Olanzapine	Zyprexa	2	A
Olmesartan	Benicar	3	A
Olsalazine	Dipentum	4	B
Omeprazole	Prilosec, Losec	5	D
Orphenadrine	Norfex	4	B
Oxabolone		3	B
Oxandrolone	Anavar	3	B
Oxaprozin	Daypro, Deflam	4	C
Oxazepam	Serax	2	A
Oxazolam	Serenal	2	A
Oxcarbazepine	Trileptal	3	A
Oxilofrine (hydroxyephedrine)		2	A
Oxprenolol	Trasicor	3	B
Oxycodone	Percodan	1	A
Oxymesterone		3	B
Oxymetazoline	Afrin	4	B
Oxymetholone	Adroyd, Anadrol	3	B
Oxymorphone	Numorphan	1	A
Oxyperitine	Forit, Integrin	2	A
Oxyphenbutazone	Tandearil	4	C
Oxyphencylimine	Daricon	4	B
Oxyphenonium	Antrenyl	4	B
Paliperidone		2	A
Pancuronium	Pavulon	2	A

Drug/Substance	Trade Name(s)	Drug Class	Penalty Class
Pantoprazole	Protonix	5	D
Papaverine	Pavagen, etc.	3	A
Paraldehyde	Paral	2	A
Paramethadione	Paradione	3	A
Paramethasone	Haldrone	4	C
Pargyline	Eutonyl	3	A
Paroxetine	Paxil, Seroxat	2	A
Pemoline	Cylert	1	A
Penbutolol	LevatoI	3	B
Penfluridol	Cyperon	2	A
Pentaerythritol tetranitrate	Duotrate	3	A
Pentazocine	Talwin	3	B
Pentobarbital	Nembutal	2	A
Pentoxifylline	Trental, Vazofirin	4	C
Pentylentetrazol	Metrazol, Nioric	1	A
Perazine	Taxilan	2	A
Perfluorodecolin		2	A
Perfluorodecahydronophthalene		2	A
Perfluorooctylbromide		2	A
Perfluorotripropylamine		2	A
Perfluorocarbons		2	A
Pergolide	Permax	3	B
Periciazine	Alodept, etc.	2	A
Perindopril	Biprel	3	A
Perlazine	Hypnodin	2	A
Perphenazine	Trilafon	2	A
Phenacemide	Phenurone	4	B
Phenaglycodol	Acalo, Alcamid, etc.	2	A
Phenazocine	Narphen	1	A
Phencyclidine (PCP)	Sernylan	1	A
Phendimetrazine	Bontril, etc.	1	A
Phenelzine	Nardelzine, Nardil	2	A
Phenindione	Hedulin	5	C
Phenmetrazine	Preludin	1	A
Phenobarbital	Luminal	2	A
Phenoxybenzamine	Dibenzylin	3	B
Phenprocoumon	Liquamar	5	C
Phensuximide	Milontin	4	B
Phentermine	Iomamin	2	A
Phentolamine	Regitine	3	B
Phenylbutazone	Butazolidin	4	C*
Phenylephrine	Isophrin, Neo-Synephrine	3	B
Phenylpropanolamine	Propadrine	3	B
Phenytoin	Dilantin	4	B
Physostigmine	Eserine	3	B

Alphabetical Substance List (Cont)

Drug/Substance	Trade Name(s)	Drug Class	Penalty Class
Picrotoxin		1	A
Piminodine	Alvodine, Cimadon	2	A
Pimozide	Orap	2	A
Pinazepam	Domar	2	A
Pindolol	Viskin	3	A
Pipamperone	Dipiperon	2	A
Pipecuronium	Arduan	2	A
Pipequaline		2	A
Piperacetazine	Psymod, Quide	2	A
Piperocaine	Metycaine	2	A
Pipotiazine	Lonseren, Piportil	2	A
Pipradrol	Dataril, Gerondyl, etc.	2	A
Piquindone		2	A
Pirbuterol	Maxair	3	A
Pirenzapine	Gastrozepin	5	C
Piretanide	Arelix, Tauliz	3	B
Piritramide		1	A
Piroxicam	Feldene	3	B
Polyethylene glycol		5	C
Polythiazide	Renese	4	B
Pramoxine	Tronothaine	4	C
Prazepam	Verstran, Centrax	2	A
Prazosin	Minipress	3	B
Prednisolone	Delta-Cortef, etc.	4	C
Prednisone	Meticorten, etc.	4	C
Prilocaine	Citanest	2	A
Primidone	Mysoline	3	B
Probenecid		4	C
Procainamide	Pronestyl	4	B
Procaine		3	B
Procaterol	Pro Air	3	A
Prochlorperazine	Darbazine, Compazine	2	A
Procyclidine	Kemadrin	3	B
Promazine	Sparine	3	B
Promethazine	Phenergan	3	B
Propafenone	Rythmol	4	B
Propanidid		2	A
Propantheline	Pro-Banthine	3	A
Proparacaine	Ophthaine	4	C
Propentophylline	Karsivan	3	B
Propiomazine	Largon	2	A
Propionylpromazine	Tranvet	2	A
Propiram		2	A
Propofol	Diprivan, Disoprivan	2	A
Propoxycaïne	Ravocaine	2	A

Drug/Substance	Trade Name(s)	Drug Class	Penalty Class
Propranolol	Inderal	3	B
Propylhexedrine	Benzedrex	4	B
Prostanazol		3	B
Prothipendyl	Dominal	2	A
Protokylol	Ventaire	3	A
Protriptyline	Concordin, Triptil	2	A
Proxibarbitol	Axeen, Centralgol	2	A
Pseudoephedrine	Cenafed, Novafed	3	B
Pyridostigmine	Mestimon, Regonol	3	B
Pyrilamine	Neoantergan, Equihist	3	B
Pyrrithyldione	Hybersulfan, Sonodor	2	A
Quazipam	Doral	2	A
Quetiapine	Seroquel	2	A
Quinbolone		3	B
Quinapril, Quinaprilat	Accupril	3	A
Quinidine	Quinidex, Quinocardine	4	B
Rabepazole	Aciphex	5	D
Racemethorphan		2	A
Racemorphan		2	A
Raclopride		2	A
Ractopamine	Paylean	2	A
Ramipril, metabolite Ramiprilat	Altace	3	A
Ranitidine	Zantac	5	D
Remifentanil	Ultiva	1	A
Remoxipride	Roxiam	2	A
Reserpine	Serpasil	2	A
Rilmazafone		2	A
Risperidone		2	A
Ritanserlin		2	A
Ritodrine	Yutopar	3	B
Rivastigmine	Exelon	2	A
Rizatriptan	Maxalt	3	B
Rocuronium	Zemuron	2	A
Rofecoxib	Vioxx	2	A
Romifidine	Sedivet	2	B
Ropivacaine	Naropin	2	A
Salicylamide		4	C
Salicylate		4	C
Salmeterol		3	B
Scopolamine (Hyoscine)	Triptone	3	B
Secobarbital (Quinalbarbitone)	Seconal	2	A
Selegiline	Eldepryl, Jumex, etc.	2	A
Sertraline	Lustral, Zolofl	2	A
Sibutramine	Meridia	3	B
Sildenafil	Viagra	3	A

Alphabetical Substance List (Cont)

Drug/Substance	Trade Name(s)	Drug Class	Penalty Class
Snake Venoms		2	A
Somatropin	Nutropin	2	A
Somatrem	Protropin	2	A
Sotalol	Betapace, Sotacor	3	B
Spiclomazine		2	A
Spiperone		2	A
Spirapril, metabolite Spiraprilat	Renomax	3	A
Spironalactone	Aldactone	4	B
Stanozolol	Winstrol-V	3	B
Stenbolone		3	B
Strychnine		1	B
Succinylcholine	Sucostrin, Quelin, etc.	2	A
Sufentanil	Sufenta	1	A
Sulfasalazine	Azulfidine, Azaline	4	C
Sulfondiethylmethane		2	A
Sulfonmethane		2	A
Sulforidazine	Inofal	2	A
Sulindac	Clinoril	3	A
Sulpiride	Aiglonyl, Sulpitol	2	A
Sultopride	Barnetil	2	A
Sumatriptan	Imitrex	3	B
Synthetic cannabis	Spice, K2, Kronic	1	A
Tadalafil	Cialis	3	A
Talbutal	Lotusate	2	A
Tandospirone		2	A
Telmisartan	Micardis	3	B
Temazepam	Restoril	2	A
Tenoxicam	Alganex, etc.	3	B
Tepoxalin		3	B
Terazosin	Hytrin	3	A
Terbutaline	Brethine, Bricanyl	3	B
Terfenadine	Seldane, Triludan	4	B
Testolactone	Teslac	3	B
Testosterone		3	B
Tetrabenazine	Nitoman	2	A
Tetracaine	Pontocaine	2	A
Tetrahydrogestrinone		3	A
Tetrahydrozoline	Tyzine	4	B
Tetrazepam	Musaril, Myolastin	2	A
Thebaine		2	A
Theobromine		4	B
Theophylline	Aqualphyllin, etc.	3	B
Thialbarbital	Kemithal	2	A
Thiamylal	Surital	2	A
Thiethylperazine	Torecan	2	A

Drug/Substance	Trade Name(s)	Drug Class	Penalty Class
Thiopental	Pentothal	2	A
Thiopropazate	Dartal	2	A
Thiopropazine	Majeptil	2	A
Thioridazine	Mellaril	2	A
Thiosalicylate		4	C
Thiothixene	Navane	2	A
Thiphenamil	Trocinate	4	B
Tiapride	Italprid, Luxoben, etc.	2	A
Tiaprofenic acid	Surgam	3	B
Tiletamine	Component of Telazol	2	A
Timiperone	Tolopelon	2	A
Timolol	Blocardrin	3	B
Tocainide	Tonocard	4	B
Tofisopam	Grandaxain, Seriel	2	A
Tolazoline	Priscoline	3	B
Tolmetin	Tolectin	3	B
Topirimate	Topamax	2	A
Torseamide (Torasemide)	Demadex	3	A
Tramadol	Ultram	2	B
Trandolapril (and metabolite, trandolaprilat)	Tarka	3	B
Tranexamic acid		4	C
Tranylcypromine	Parnate	2	A
Trazodone	Desyrel	2	A
Trenbolone	Finoplix	3	B
Tretoquinol	Inolin	2	A
Triamcinolone	Vetalog, etc.	4	C
Triamterene	Dyrenium	4	B
Triazolam	Halcion	2	A
Tribromethanol		2	A
Tricaine methanesulfonate	Finquel	2	A
Trichlormethiazide	Naqua, Naquasone	4	C
Trichloroethanol		2	A
Trichloroethylene	Trilene, Trimar	2	A
Triclofos	Triclos	2	A
Tridihexethyl	Pathilon	4	B
Trifluomeprazine	Nortran	2	A
Trifluoperazine	Stelazine	2	A
Trifluperidol	Triperidol	2	A
Triflupromazine	Vetame, Vesprin	2	A
Trihexylphenidyl	Artane	3	A
Trimeprazine	Temaril	4	B
Trimethadione	Tridione	3	B
Trimethaphan	Arfonad	3	A
Trimipramine	Surmontil	2	A

Alphabetical Substance List (Cont)

Drug/Substance	Trade Name(s)	Drug Class	Penalty Class
Tripelennamine	PBZ	3	B
Tripolidine	Actidil	4	B
Tubocurarine (Curare)	Metubin	2	A
Tybamate	Benvil, Nospan, etc.	2	A
Urethane		2	A
Valdecoxib		2	A
Valerenic acid		3	A
Valnoctamide	Nirvanyl	2	A
Valsartan	Diovan	3	B
Vardenafil	Levitra	3	A
Vedaprofen		4	B
Venlafaxine	Efflexor	2	A
Veralipride	Accional, Veralipril	2	A
Verapamil	Calan, Isoptin	4	B
Vercuronium	Norcuron	2	A
Viloxazine	Catatrol, Vivalan, etc.	2	A
Vinbarbital	Delvinol	2	A
Vinylbital	Optanox, Speda	2	A
Warfarin	Coumadin, Coufarin	5	C
Xylazine	Rompun, Bay Va 1470	3	B
Xylometazoline	Otrivin	4	B
Yohimbine		2	A
Zafirlukast	Accolate	4	C
Zaleplon	Sonata	2	A
Zeranol	Ralgro	4	C
Ziconotide		1	A
Zileuton	Zyflo	4	C
Zilpaterol hydrochloride	Zilpaterol	2	A
Ziprasidone	Geoden	2	A
Zolazepam		2	A
Zolmitriptan	Zomig	3	B
Zolpidem	Ambien, Stilnox	2	A
Zomepirac	Zomax	2	A
Zonisamide	Zonegran	3	B
Zopiclone	Imovan	2	A
Zotepine	Lodopin	2	A
Zuclopenthixol	Ciatyl, Cesordinol	2	A
Δ-1-androstene-3, 17-diol		3	A
Δ-1-androstene-3, 17-dione		3	A
Δ-1-dihydrotestosterone		3	A

*See Recommended Penalty Section of Document

Listing by Classification

Class 1: Stimulant and depressant drugs that have the highest potential to affect performance and that have no generally accepted medical use in the racing horse. Many of these agents are Drug Enforcement Agency (DEA) Schedule II substances. These include the following drugs and their metabolites: Opiates, opium derivatives, synthetic opioids, psychoactive drugs, all DEA Schedule I* substances (see <http://www.usdoj.gov/dea/pubs/scheduling.html>), amphetamines and amphetamine-like drugs as well as related drugs, including but not limited to apomorphine, nikethamide, mazindol, pemoline, and pentylentetrazol.

Drug/Substance	Trade Name(s)	Drug Class	Penalty Class
3,4-methylenedioxypropylamphetamine	MDPV, "Bath Salts"	1	A
Alfentanil	Alfenta	1	A
Aminorex	Aminoxafen, Aminoxaphen, Apiquel, McN-742, Menocil	1	A
Amphetamine		1	A
Anileridine	Leritine	1	A
Apomorphine		1	A
Benzylpiperazine (BZP)		1	A
Carfentanil		1	A
Cathinone	khat, kat, qat, quat, chat, catha, Abyssinian tea, African tea	1	A
a-Cobratoxin		1	A
Cocaine ⁴		1	B ⁴
Codeine		1	A
DEA Schedule I (all)*		1	A
Dermorphin		1	A
Dextromoramide	Palfium, Narcolo	1	A
Diamorphine		1	A
Donepezil	Aricept	1	A
Endorphins		1	A
Enkephalins		1	A
Ethylmorphine	Dionin	1	A
Etorphine HCl	M99	1	A
Fentanyl	Sublimaze	1	A
Heroin		1	A
Hydrocodone (dihydrocodienone)	Hydocane	1	A
Hydromorphone	Dilaudid	1	A
Hydroxyamphetamine	Paradrine	1	A
Levorphanol	Levo-Dremoran	1	A
Lofentanil		1	A

⁵ Recommended Penalty B if testing can prove presence of only levo-methamphetamine is present in sample.

Drug/Substance	Trade Name(s)	Drug Class	Penalty Class
Mazindol	Sanorex	1	A
Meperidine	Demerol	1	A
Mephentermine	Wyamine	1	A
Metaraminol	Aramine	1	A
Methadone	Dolophine	1	A
Methamphetamine	Desoxyn	1	A ⁵
Methaqualone	Quaalude	1	A
Methcathinone		1	A
Methylhexanamine (Methylhexanamine)	Geranamine	1	A
Methylphenidate	Ritalin	1	A
Metopon (methyldihydromorphinone)		1	A
Morphine ⁶		1	B ⁶
myo-inositol trispyrophosphate (ITPP)		1	A
Nikethamide	Coramine	1	A
Oxycodone	Percodan	1	A
Oxymorphone	Numorphan	1	A
Pemoline	Cylert	1	A
Pentylentetrazol	Metrazol, Nioric	1	A
Phenazocine	Narphen	1	A
Phencyclidine (PCP)	Sernylan	1	A
Phendimetrazine	Bontril, etc.	1	A
Phenmetrazine	Preludin	1	A
Picrotoxin		1	A
Piritramide		1	A
Remifentanil	Ultiva	1	A
Strychnine		1	B
Sufentanil	Sufenta	1	A
Synthetic cannabis	Spice, K2, Kronic	1	A
Ziconotide		1	A

⁶ Penalty class "A" recommended if regulators can prove an intentional administration.

Listing by Classification (Continued)

Class 2: Drugs that have a high potential to affect performance, but less of a potential than Class 1. These drugs are 1) not generally accepted as therapeutic agents in racing horses, or 2) they are therapeutic agents that have a high potential for abuse.

Drug/Substance	Trade Name(s)	Drug Class	Penalty Class
3-Methoxytyramine	3-MT	2	A
Acecarbromal		2	A
Acetophenazine	Tindal	2	A
Adinazolam		2	A
Alclofenac		2	A
Alcuronium	Alloferin	2	A
Alphaprodine	Nisentil	2	A
Alpidem	Anaxyl	2	A
Alprazolam	Xanax	2	A
Althesin	Saffan	2	A
Amisulpride	Solian	2	A
Amitriptyline	Elavil, Amitril, Endep	2	A
Amobarbital	Amytal	2	A
Amoxapine	Asendin	2	A
Amperozide		2	A
Anilopam	Anisine	2	A
Aprobarbital	Alurate	2	A
Articaine	Septocaine; Ultracaine, etc.	2	A
Atomoxetine	Strattera	2	A
Atracurium	Tracrium	2	A
Azacylonol	Frenque	2	A
Azaperone	Stresnil, Suicalm, Fentaz (with Fentanyl)	2	A
Barbital	Veronal	2	A
Barbiturates		2	A
Bemegride	Megimide, Mikedimide	2	A
Benoxaprofen		2	A
Benperidol	Anquil	2	A
Benzazepam	Tiadipona	2	A
Benzactizine	Deprol, Bronchodiletten	2	A
Benzocetamine		2	A
Benzodiazepines		2	A
Benzonatate	Tessalon, Tessalon Perles, Zonatuss	2	A
Benzphetamine	Didrex	2	A
Benztropine	Cogentin	2	A
Biriperone		2	A
Brimonidine	Alphagan	2	A
Bromazepam	Lexotan, Lectopam	2	A

Drug/Substance	Trade Name(s)	Drug Class	Penalty Class
Bromisovalum	Diffucord, etc.	2	A
Bromocriptine	Parlodel	2	A
Bromperidol	Bromidol	2	A
Brotizolam	Brotocol	2	A
Bupivacaine	Marcaine	2	A
Buprenorphine	Temgesic	2	A
Buspirone	Buspar	2	A
Bupropion	Wellbutrin	2	A
Butabarbital (Secbutobarbitone)	Butacaps, Butasol, etc.	2	A
Butalbital (Talbutal)	Fiorinal	2	A
Butanilicaine	Hostacain	2	A
Butaperazine	Repoise	2	A
Butoctamide	Listomin	2	A
Caffeine		2	B
Camazepam	Paxor	2	A
Captodiamine	Covatine	2	A
Carbidopa + levodopa	Sinemet	2	A
Carbromol	Mifudorm	2	A
Carisoprodol	Soma, Rela	2	B
Carphenazine	Proketazine	2	A
Carpipramine	Prazinil	2	A
Carticaine (see articaine)	Septocaine; Ultracaine, etc.	2	A
Chloralose (Alpha-Chloralose)		2	A
Chloral betaine	Beta-Chlor	2	A
Chloral hydrate	Nactec, Oridrate, etc.	2	A
Chloraldehyde (chloral)		2	A
Chlordiazepoxide	Librium	2	A
Chlormezanone	Trancopal	2	A
Chloroform		2	A
Chlorhexidol		2	A
Chlorprocaine	Nesacaine	2	A
Chlorproethazine	Newiplege	2	A
Chlorpromazine	Thorazine, Largactil	2	A
Chlorprothixene	Taractan	2	A
Citalopram	Celex	2	A
Clobazam	Urbanyl	2	A
Clocapramine		2	A
Clomethiazole (Chlormethiazole)		2	A
Clomipramine	Anafranil	2	A

Listing by Classification (Continued)

Class 2: Drugs that have a high potential to affect performance, but less of a potential than Class 1. These drugs are 1) not generally accepted as therapeutic agents in racing horses, or 2) they are therapeutic agents that have a high potential for abuse.

Drug/Substance	Trade Name(s)	Drug Class	Penalty Class
Clonazepam	Klonopin	2	A
Clorazepate	Tranxene	2	A
Clothiapine	Entermin	2	A
Clotiazepam	Trecalmo, Rize	2	A
Cloxazolam	Enadel, Sepazon, Tolestan	2	A
Clozapine	Clozaril, Leponex	2	A
Conorphone		2	A
Corticaine	Ultracain	2	A
Crotetamide		2	A
Cyamemazine	Tercian	2	A
Cyclobarbital	Phanodorm	2	A
Darbepoetin	Aranesp	2	A
Decamethonium	Syncurine	2	A
Demoxepam		2	A
Desipramine	Norpromine, Pertofrane	2	A
Dezocine	Dalgan®	2	A
Diazepam	Valium	2	B
Dichloralphenazone	Febenol, Isocom	2	A
Diethylpropion	Tepanil, etc.	2	A
Diethylthiambutene	Themalon	2	A
Dihydrocodeine	Parcodin	2	A
Dilorazepam	Briantum	2	A
Diprenorphine	M50/50	2	A
Dixyrazine	Esucos	2	A
Dopamine	Intropin	2	A
Doxacurium	Nuromax	2	A
Doxapram	Dopram	2	A
Doxefazepam	Doxans	2	A
Doxepin	Adapin, Sinequan	2	A
Droperidol	Inapsine, Droleptan, Innovar-Vet (with Fentanyl)	2	A
Duloxetine		2	A
Enciprazine		2	A
Ephedrine		2	A
Epibatidine		2	A
Epinephrine		2	A
Ergoloid Mesylates (dihydroergocornine)		2	A

Drug/Substance	Trade Name(s)	Drug Class	Penalty Class
Mesylate, dihydroergocristine mesylate and dihydroergocryptine mesylate)	Hydergine		
Erythropoietin (EPO)	Epogen, Procrit, etc.	2	A
Estazolam	Domnamid, Eurodin, Nuctalon	2	A
Ethamivan		2	A
Ethanol		2	A
Ethchlorvynol	Placidyl	2	A
Ethinamate	Valmid	2	A
Ethopropazine	Parsidol	2	A
Ethylisobutrazine	Diquel	2	A
Etidocaine	Duranest	2	A
Etifoxin	Stresam	2	A
Etizolam	Depas, Pasaden	2	A
Etodroxizine	Indunox	2	A
Etomidate		2	A
Fenarbamate	Tymium	2	A
Fenclozic Acid	Cincopal	2	A
Fenfluramine	Pondimin	2	A
Fluanisone	Sedalande	2	A
Fludiazepam	Erispam	2	A
Flunitrazepam	Rohypnol, Narcozep, Darkene, Hypnodorm Darkene, Hypnodorm Darkene, Hypnodorm Darkene	2	A
Fluopromazine	Psyquil, Siquil	2	A
Fluoresone	Caducid	2	A
Fluoxetine	Prozac	2	A
Flupenthixol	Depixol, Fluaxol	2	A
Fluphenazine	Prolixin, Permitil, Anatsol, etc.	2	A
Flurazepam	Dalmane	2	A
Fluspirilene	Imap, Redeptin	2	A
Flutoprazepam	Restas	2	A
Fluvoxamine	Dumirox, Faverin, etc.	2	A
Galantamine	Reminyl	2	A
Gallamine	Flaxedil	2	A
Gepirone		2	A
Glutethimide	Doriden	2	A

Listing by Classification (Continued)

Class 2: Drugs that have a high potential to affect performance, but less of a potential than Class 1. These drugs are 1) not generally accepted as therapeutic agents in racing horses, or 2) they are therapeutic agents that have a high potential for abuse.

Drug/Substance	Trade Name(s)	Drug Class	Penalty Class
Halazepam	Paxipam	2	A
Haloperidol	Haldol	2	A
Haloxazolam	Somelin	2	A
Hemoglobin glutamers	Oxyglobin, Hemopure	2	A
Hexafluorenum	Myalexen	2	A
Hexobarbital	Evipal	2	A
Homophenazine	Pelvichthol	2	A
Hydroxyzine	Atarax	2	B
Ibomal	Noctal	2	A
Imipramine	Imavate, Presamine, Tofranil	2	A
Isapirone		2	A
Isocarboxazid	Marplan	2	A
Isomethadone		2	A
Isoproterenol	Isoprel	2	A
Isoxicam	Maxicam	2	A
Ketamine	Ketalar, Ketaset, Vetalar	2	B
Ketazolam	Anxon, Laftram, Solatran, Loftran	2	A
Lenperone	Elanone-V	2	A
Levamisole		2	B
Levomethorphan		2	A
Lidocaine	Xylocaine	2	B
Lithium	Lithizine, Duralith, etc.	2	A
Lobeline		2	A
Loflazepate, Ethyl	Victan	2	A
Loperamide	Imodium	2	A
Loprazolam	Dormonort, Havlane	2	A
Lorazepam	Ativan	2	A
Lormetazepam	Noctamid	2	A
Loxapine	Laxitane	2	A
Maprotiline	Ludiomil	2	A
Mebutamate	Axiten, Dormate, Capla	2	A
Meclofenoxate	Lucidril, etc.	2	A
Medazepam	Nobrium, etc.	2	A
Melperone	Eunerpan	2	A
Memantine	Namenda	2	A
Meparfynol	Oblivon	2	A
Mepazine	Pacatal	2	A
Mephexalone	Control, etc.	2	A

Drug/Substance	Trade Name(s)	Drug Class	Penalty Class
Mephentyoin	Mesantoin	2	A
Mephobarbital (Methylphenobarbital)	Mebaral	2	A
Mepivacaine	Carbocaine	2	B
Meproamate	Equanil, Miltown	2	A
Mesoridazine	Serentil	2	A
Metaclazepam	Talis	2	A
Metazocine		2	A
Metharbital	Gemonil	2	A
Methohexital	Brevital	2	A
Methotrimeprazine	Levoprome, Neurocil, etc.	2	A
Methyprylon	Noludar	2	A
Metocurine	Metubine	2	A
Metomidate	Hypnodil	2	A
Mexazolam	Melex	2	A
Midazolam	Versed	2	A
Mirtazepine	Remeron	2	A
Mivacurium	Mivacron	2	A
Modafinil	Provigil	2	A
Molindone	Moban	2	A
Moperone	Luvatren	2	A
Mosaprimine		2	A
Nalbuphine	Nubain	2	A
Nalorphine	Nalline, Lethidrone	2	A
Nefazodone	Serzone	2	A
Nimetazepam	Erimin	2	A
Nitrazepam	Mogadon	2	A
Nordiazepam	Calmday, Nordaz, etc.	2	A
Norepinephrine		2	A
Nortriptyline	Aventyl, Pamelor	2	A
Olanzapine	Zyprexa	2	A
Oxazepam	Serax	2	A
Oxazolam	Serenal	2	A
Oxilofrine (hydroxyephedrine)		2	A
Oxyperitine	Forit, Integrin	2	A
Paliperidone		2	A
Pancuronium	Pavulon	2	A
Paraldehyde	Paral	2	A
Paroxetine	Paxil, Seroxat	2	A
Penfluridol	Cyperon	2	A

Listing by Classification (Continued)

Class 2: Drugs that have a high potential to affect performance, but less of a potential than Class 1. These drugs are 1) not generally accepted as therapeutic agents in racing horses, or 2) they are therapeutic agents that have a high potential for abuse.

Drug/Substance	Trade Name(s)	Drug Class	Penalty Class
Pentobarbital	Nembutal	2	A
Perazine	Taxilan	2	A
Perfluorodecolin		2	A
Perfluorodecahydronophthalene		2	A
Perfluorooctylbromide		2	A
Perfluorotripropylamine		2	A
Perfluorocarbons		2	A
Periciazine	Alodept, etc.	2	A
Perlazine	Hypnodin	2	A
Perphenazine	Trilafon	2	A
Phenaglycodol	Acalo, Alcamid, etc.	2	A
Phenelzine	Nardelzine, Nardil	2	A
Phenobarbital	Luminal	2	A
Phentermine	Iomamin	2	A
Piminodine	Alvodine, Cimadon	2	A
Pimozide	Orap	2	A
Pinazepam	Domar	2	A
Pipamperone	Dipiperon	2	A
Pipecuronium	Arduan	2	A
Pipequaline		2	A
Piperacetazine	Psymod, Quide	2	A
Piperocaine	Metycaine	2	A
Pipotiazine	Lonseren, Piportil	2	A
Pipradrol	Dataril, Gerondyl, etc.	2	A
Piquindone		2	A
Prazepam	Verstran, Centrax	2	A
Prilocaine	Citanest	2	A
Prochlorperazine	Darbazine, Compazine	2	A
Propanidid		2	A
Propiomazine	Largon	2	A
Propionylpromazine	Tranvet	2	A
Propiram		2	A
Propofol	Diprivan, Disoprivan	2	A
Propoxycaine	Ravocaine	2	A
Prothipendyl	Dominal	2	A
Protriptyline	Concordin, Triptil	2	A
Proxibarbital	Axeen, Centralgol	2	A
Pyrithyldione	Hybersulfan, Sonodor	2	A
Quazipam	Doral	2	A
Quetiapine	Seroquel	2	A

Drug/Substance	Trade Name(s)	Drug Class	Penalty Class
Racemethorphan		2	A
Racemorphan		2	A
Raclopride		2	A
Ractopamine	Paylean	2	A
Remoxipride	Roxiam	2	A
Reserpine	Serpasil	2	A
Rilmazafone		2	A
Risperidone		2	A
Ritanserlin		2	A
Rivastigmine	Exelon	2	A
Rocuronium	Zemuron	2	A
Rofecoxib	Vioxx	2	A
Romifidine	Sedivet	2	B
Ropivacaine	Naropin	2	A
Secobarbital (Quinalbarbitone)	Seconal	2	A
Selegiline	Eldepryl, Jumex	2	A
Sertraline	Lustral, Zoloft	2	A
Snake Venoms		2	A
Somatrem	Protropin	2	A
Somatropin	Nutropin	2	A
Spiclomazine		2	A
Spiperone		2	A
Succinylcholine	Sucostrin, Quelin, etc.	2	A
Sulfondiethylmethane		2	A
Sulfonmethane		2	A
Sulforidazine	Inofal	2	A
Sulpiride	Aiglonyl, Sulpitol	2	A
Sultopride	Barnetil	2	A
Talbutal	Lotusate	2	A
Tandospirone		2	A
Temazepam	Restoril	2	A
Tetrabenazine	Nitoman	2	A
Tetracaine	Pontocaine	2	A
Tetrazepam	Musaril, Myolastin	2	A
Thebaine		2	A
Thialbarbital	Kemithal	2	A
Thiamylal	Surital	2	A
Thiethylperazine	Torecan	2	A
Thiopental	Pentothal	2	A
Thiopropazate	Dartal	2	A

Listing by Classification (Continued)

Class 2: Drugs that have a high potential to affect performance, but less of a potential than Class 1. These drugs are 1) not generally accepted as therapeutic agents in racing horses, or 2) they are therapeutic agents that have a high potential for abuse.

Drug/Substance	Trade Name(s)	Drug Class	Penalty Class
Thiopropazine	Majeptil	2	A
Thioridazine	Mellaril	2	A
Thiothixene	Navane	2	A
Tiapride	Italprid, Luxoben, etc.	2	A
Tiletamine	Component of Telazol	2	A
Timiperone	Tolopelon	2	A
Tofisopam	Grandaxain, Seriel	2	A
Topiramate	Topamax	2	A
Tramadol	Ultram	2	B
Tranlycypromine	Parnate	2	A
Trazodone	Desyrel	2	A
Tretoquinol	Inolin	2	A
Triazolam	Halcion	2	A
Tribromethanol		2	A
Tricaine methanesulfonate	Finquel	2	A
Trichloroethanol		2	A
Trichloroethylene	Trilene, Trimar	2	A
Triclofos	Triclos	2	A
Trifluomeprazine	Nortran	2	A
Trifluoperazine	Stelazine	2	A
Trifluoperidol	Triperidol	2	A
Triflupromazine	Vetame, Vesprin	2	A
Trimipramine	Surmontil	2	A
Tubocurarine (Curare)	Metubin	2	A
Tybamate	Benvil, Nospan, etc.	2	A
Urethane		2	A
Valdecoxib		2	A
Valnoctamide	Nirvanyl	2	A
Venlafaxine	Efflexor	2	A
Veralipride	Accional, Veralipril	2	A
Vercuronium	Norcuron	2	A
Viloxazine	Catatrol, Vivalan, etc.	2	A
Vinbarbital	Delvinol	2	A
Vinylbital	Optanox, Speda	2	A
Yohimbine		2	A
Zaleplon	Sonata	2	A
Zilpaterol hydrochloride	Zilpaterol	2	A
Ziprasidone	Geodon	2	A
Zolazepam		2	A
Zolpidem	Ambien, Stilnox	2	A

Drug/Substance	Trade Name(s)	Drug Class	Penalty Class
Zomepirac	Zomax	2	A
Zopiclone	Imovan	2	A
Zotepine	Lodopin	2	A
Zuclopenthixol	Ciatyl, Cesordinol	2	A

Listing by Classification (Continued)

Class 3: Drugs that may or may not have generally accepted medical use in the racing horse, but the pharmacology of which suggests less potential to affect performance than drugs in Class 2.

Drug/Substance	Trade Name(s)	Drug Class	Penalty Class
Acebutolol	Sectral	3	B
Acepromazine	Atrovet, Notensil, PromAce®	3	B
Albuterol (Salbutamol)	Proventil, Ventolin	3	B
Almotriptan	Axert	3	A
Alprenolol		3	A
Ambenonium	Mytelase, Myeuran	3	B
Aminophylline	Aminophyllin, etc.	3	B
Amitraz	Mitaban	3	A
Amlodipine	Norvasc	3	B
Amyl nitrite		3	A
Arecoline		3	A
Arformoterol		3	A
Atenolol	Tenormin	3	B
Atropine		3	B
Benazepril	Lotrel, Lotensin	3	B
Betaxolol	Kerlone	3	B
Bethanidine	Esbatal	3	A
Biperiden	Akineton	3	A
Bisoprolol	Zebeta, Bisobloc, etc.	3	B
Bitolterol	Effectin	3	A
Bolasterone		3	A
Boldenone	Equipoise	3	B
Boldione		3	A
Bretylum	Bretylol	3	B
Bromfenac	Duract	3	A
Bromodiphenhydramine		3	B
Bufexamac		3	A
Bumetanide	Bumex	3	B
Butorphanol	Stadol, Torbugesic	3	B

Drug/Substance	Trade Name(s)	Drug Class	Penalty Class
N-Butylscopolamine		3	B
Calusterone		3	B
Candesartan	Atacand	3	B
Captopril	Capolen	3	B
Carazolol	Carbacel, Conducton	3	A
Carbachol	Lentin, Doryl	3	B
Carbamezapine	Tegretol	3	B
Carbinoxamine	Clistin	3	B
Carteolol	Cartrol	3	B
Carvedilol	Coreg	3	B
Celecoxib	Celebrex	3	B
Cimeterol		3	A
Clemastine	Tavist	3	B
Clenbuterol	Ventipulmin	3	B
Clidinium	Quarezan, Clindex, etc.	3	B
Clonidine	Catapres	3	B
Clostebol		3	B
Cobalt		3	B ⁷
Cyclandelate	Cyclospasmol	3	A
Cycrimine	Pagitane	3	B
Danazol	Danocrine	3	B
Dehydrochloromethyltestosterone		3	B
Deracoxib	Deremaxx	3	B
Desoxymethyltestosterone		3	B
Detomidine	Dormosedan	3	B
Dextropropoxyphene	Darvon	3	B
Diazoxide	Proglycem	3	B
Diflunisal		3	B
Dimeflin		3	A
Diphenhydramine	Benadryl	3	B

⁷ For cobalt concentrations of less than 25 parts per billion (ppb) of blood serum or plasma no penalty is recommended. For concentrations of 25 ppb or greater but less than 50 ppb of blood plasma or serum the recommended penalty is a written warning, the placement of the horse on the Veterinarians List with removal from list only after a blood test confirms that the concentration is below 25 ppb of blood plasma or serum. Testing shall be paid by the owner(s) of the horse. Concentrations of 50 ppb or greater in blood plasma or serum have a recommended "B" penalty.

Listing by Classification (Continued)

Class 3: Drugs that may or may not have generally accepted medical use in the racing horse, but the pharmacology of which suggests less potential to affect performance than drugs in Class 2.

Drug/Substance	Trade Name(s)	Drug Class	Penalty Class
Dipyridamole	Persantine	3	B
Divalproex	Depakote	3	A
Dobutamine	Dobutrex	3	B
Doxazosin		3	A
Doxylamine	Decapryn	3	B
Dromostanolone	Drolban	3	B
Dyphylline		3	B
Edrophonium	Tensilon	3	B
Eletripan	Relpax	3	A
Enalapril (metabolite enalaprilat)	Vasotec	3	B
Erthrityl tetranitrate	Cardilate	3	A
Esmolol	Brevibloc	3	B
Etamiphylline		3	B
Ethacrynic acid	Edecrin	3	B
Ethosuximide	Zarontin	3	A
Ethylestrenol	Maxibolin, Organon	3	B
Ethylnorepinephrine	Bronkephrine	3	A
Etodolac	Lodine	3	B
Felbamate	Felbatol	3	A
Fenbufen	Cincopal	3	B
Fenoldopam	Corlopam	3	B
Fenopropfen	Nalfon	3	B
Fenoterol	Berotec	3	B
Fenspiride	Respiride, Respan, etc	3	B
Fentiazac		3	B
Flurbiprofen	Froben	3	B
Flufenamic Acid		3	B
Fluoxymesterone	Halotestin	3	B
Flupirtine	Katadolone	3	A
Formebolone		3	B
Formoterol	Altram	3	B
Fosinopril	Monopril	3	A
Fosphenytoin	Cerebyx	3	B
Furazabol		3	B
Gabapentin	Neurontin	3	B
Gamma Aminobutyric Acid (GABA)	Carolina Gold	3	B
Gestrinone		3	A
Glycopyrrolate	Robinul	3	B
Guanadrel	Hylorel	3	A
Guanethidine	Ismelin	3	A
Guanabenz	Wytenzin	3	B

Drug/Substance	Trade Name(s)	Drug Class	Penalty Class
Heptaminol	Corofundol	3	B
Homatropine	Homapin	3	B
Hydralazine	Apresoline	3	B
4-Hydroxytestosterone		3	B
Ibutilide	Corvert	3	B
Iloprost	Ventavis	3	A
Indomethacin	Indocin	3	B
Ipratropium		3	B
Irbesarten	Avapro	3	A
Isoetharine	Bronkosol	3	B
Isosorbide dinitrate	Isordil	3	B
Kebuzone		3	B
Ketorolac	Toradol	3	A
Labetalol	Normodyne	3	B
Lamotrigine	Lamictal	3	A
Levobunolol	Betagan	3	B
Lisinopril	Prinivil, Zestril	3	A
Losartan	Hyzaar	3	B
Mabuterol		3	A
Mecamylamine	Inversine	3	B
Medetomidine	Domitor	3	B
Mefenamic Acid	Ponstel	3	B
Mepenzolate	Cantil	3	A
Mestanolone		3	B
Mesterolone		3	B
Metaproterenol	Alupent, Metaprel	3	B
Metenolone		3	B
Methacholine		3	A
Methandienone		3	B
Methandriol	Probolic	3	B
Methandrostenolone	Dianabol	3	A
Methantheline	Banthine	3	B
Methasterone		3	A
Methixene	Trest	3	A
Methoxamine	Vasoxyl	3	A
Methoxyphenamine	Orthoxide	3	A
Methsuximide	Celontin	3	A
Methylatropine		3	B
Methyldienolone		3	B
Methyldopa	Aldomet	3	A
Methylnortestosterone		3	B

Listing by Classification (Continued)

Class 3: Drugs that may or may not have generally accepted medical use in the racing horse, but the pharmacology of which suggests less potential to affect performance than drugs in Class 2.

Drug/Substance	Trade Name(s)	Drug Class	Penalty Class
Methyltestosterone	Metandren	3	A
Methyl-1-testosterone		3	A
Metolazone		3	B
Metoprolol	Lopressor	3	B
Mibefradil	Posicor	3	B
Mibolerone		3	B
Midodrine	Pro-Amiline	3	B
Minoxidil	Loniten	3	B
Moexipril (metabolite, moexiprilat)	Uniretic	3	B
Muscarine		3	A
Nabumetone	Anthraxan, Relafen, Reliflex	3	A
Nadol	Corgard	3	B
Naloxone	Narcan	3	A
Naltrexone	Revia	3	A
Nandrolone	Nandrolin, Laurabolin, Durabolin	3	B
Naratriptan	Amerge	3	B
Nebivolol		3	A
Nefopam		3	A
Neostigmine	Prostigmine	3	B
Niflumic Acid	Nifluril	3	B
Nimesulide		3	B
Nitroglycerin		3	B
19-Norandrostenediol		3	B
19-Norandrostenedione		3	B
Norbolethone		3	B
Norclostebol		3	B
Norethandrolone		3	A
Nylidrine	Arlidin	3	A
Olmesartan	Benicar	3	A
Oxabolone		3	B
Oxandrolone	Anavar	3	B
Oxcarbazepine	Trileptal	3	A
Oxprenolol	Trasicor	3	B
Oxymesterone		3	B
Oxymetholone	Adroyd, Anadrol	3	B
Papaverine	Pavagen, etc.	3	A
Paramethadione	Paradione	3	A
Pargyline	Eutonyl	3	A
Penbutolol	Levatol	3	B

Drug/Substance	Trade Name(s)	Drug Class	Penalty Class
Pentaerythritol tetranitrate	Duotrate	3	A
Pentazocine	Talwin	3	B
Pergolide	Permax	3	B
Perindopril	Biprel	3	A
Phenoxybenzamine	Dibenzyline	3	B
Phentolamine	Regitine	3	B
Phenylephrine	Isophrin, Neo-Synephrine	3	B
Phenylpropanolamine	Propadrine	3	B
Physostigmine	Eserine	3	B
Pindolol	Viskin	3	A
Pirbuterol	Maxair	3	A
Piretanide	Arelix, Tauliz	3	B
Piroxicam	Feldene	3	B
Prazosin	Minipress	3	B
Primidone	Mysoline	3	B
Procaine		3	B
Procaterol	Pro Air	3	A
Procyclidine	Kemadrin	3	B
Promazine	Sparine	3	B
Promethazine	Phenergan	3	B
Propantheline	Pro-Banthine	3	A
Propentophylline	Karsivan	3	B
Propranolol	Inderal	3	B
Prostanazol		3	B
Protokylol	Ventaire	3	A
Pseudoephedrine	Cenafed, Novafed	3	B
Pyridostigmine	Mestinon, Regonol	3	B
Pyrilamine	Neoantergan, Equihist	3	B
Quinapril, Quinaprilat	Accupril	3	A
Quinbolone		3	B
Ramipril, metabolite Ramiprilat	Altace	3	A
Ritodrine	Yutopar	3	B
Rizatriptan	Maxalt	3	B
Salmeterol		3	B
Scopolamine (Hyoscine)	Triptone	3	B
Sibutramine	Meridia	3	B
Sildenafil	Viagra	3	A
Sotalol	Betapace, Sotacor	3	B
Spirapril, metabolite Spiraprilat	Renomax	3	A
Stanozolol	Winstrol-V	3	B
Stenbolone		3	B

Listing by Classification (Continued)

Class 3: Drugs that may or may not have generally accepted medical use in the racing horse, but the pharmacology of which suggests less potential to affect performance than drugs in Class 2.

Drug/Substance	Trade Name(s)	Drug Class	Penalty Class
Sulindac	Clinoril	3	A
Sumatriptan	Imitrex	3	B
Tadalafil	Cialis	3	A
Telmisartan	Micardis	3	B
Tenoxicam	Alganex, etc.	3	B
Tepoxalin		3	B
Terazosin	Hytrin	3	A
Terbutaline	Brethine, Bricanyl	3	B
Testolactone	Teslac	3	B
Testosterone		3	B
Tetrahydrogestrinone		3	A
Theophylline	Aqualphyllin, etc.	3	B
Tiaprofenic Acid	Surgam	3	B
Timolol	Blocardrin	3	B
Tolazoline	Priscoline	3	B
Tolmetin	Tolectin	3	B
Torsemide (Torasemide)	Demadex	3	A
Trandolapril (and metabolite, Trandolaprilat)	Tarka	3	B
Trenbolone	Finoplix	3	B
Trihexylphenidyl	Artane	3	A
Trimethadione	Tridione	3	B
Trimethaphan	Arfonad	3	A
Tripelennamine	PBZ	3	B
Valerenic acid		3	A
Valsartan	Diovan	3	B
Vardenafil	Levitra	3	A
Xylazine	Rompun, Bay Va 1470	3	B
Zolmitriptan	Zomig	3	B
Zonisamide	Zonegran	3	B
Δ -1-androstene-3, 17-diol		3	A
Δ -1-androstene-3, 17-dione		3	A
Δ -1-dihydrotestosterone		3	A

Listing by Classification (Continued)

Class 4: This class includes therapeutic medications that would be expected to have less potential to affect performance than those in Class 3.

Drug/Substance	Trade Name(s)	Drug Class	Penalty Class
2-Aminoheptane	Tuamine	4	B
Acetaminophen (Paracetamol)	Tylenol, Tempra, etc.	4	C
Acetanilid		4	B
Acetazolamide	Diamox, Vetamox	4	B
Acetophenetidin (Phenacetin)		4	B
Acetylsalicylic acid (Aspirin)		4	C
Alclomethasone	Aclovate	4	C
Adrenochrome monosemicarbazone salicylate		4	B
Aldosterone	Aldocortin, Electro cortin	4	B
Ambroxol	Ambril, etc.	4	C
Amcinonide	Cyclocort	4	C
Amiloride	Moduretic; Midamor	4	B
Aminocaproic acid	Amicar, Caprocid	4	C
Amiodarone		4	B
Aminopyrine		4	B
Amisometradine	Rolictron	4	B
Amlopidine	Norvasc, Ammivin	4	B
Amrinone		4	B
Anisotropine	Valpin	4	B
Antipyrine		4	B
Apazone (Azapropazone)	Rheumox	4	B
Aprindine		4	B
Baclofen	Lioresal	4	B
Beclomethasone	Propaderm	4	C
Bendroflumethiazide	Naturetin	4	B
Benoxinate	Dorsacaine	4	C
Benzocaine		4	B
Benzthiazide		4	B
Bepriidil	Bepadin	4	B
Betamethasone	Betasone, etc.	4	C
Bethanechol	Urecholine, Duvoid	4	C
Bromhexine	Oletor, etc.	4	B
Brompheniramine	Dimetane, Disomer	4	B
Budesonide	Pulmacort, Rhinocort	4	C
Butacaine	Butyn	4	B
Butamben (butyl aminobenzoate)	Butesin	4	C
Butoxycaine	Stadacain	4	B
Camphor		4	C
Carbazochrome		4	C
Carprofen	Rimadyl	4	B
Cetirizine	Zyrtec	4	C

Drug/Substance	Trade Name(s)	Drug Class	Penalty Class
Chlormerodrin	Neohydrin	4	B
Chlorophenesin	Maolate	4	C
Chloroquine	Avloclor	4	C
Chlorothiazide	Diuril	4	B
Chlorpheniramine	Chlor triemton, etc.	4	B
Chlorthalidone	Hydroton	4	B
Chlorzoxazone	Paraflex	4	B
Ciclesonide		4	B
Cinchocaine	Nupercaine	4	C
Clanobutin		4	B
Clibucaine	Batrax	4	C
Clobetasol	Temovate	4	C
Clocortolone	Cloderm	4	C
Clofenamide		4	B
Clormecaine	Placacid	4	C
Colchicine		4	B
Cortisone	Cortone, etc.	4	C
Cyclizine	Merazine	4	B
Cyclobenzaprine	Flexeril	4	B
Cyclomethylcaine	Surfacaine	4	C
Cyclothiazide	Anhydron, Renazide	4	B
Cyproheptadine	Periactin	4	C
Dantrolene	Dantrium	4	C
Dembroxol (Dembrexine)	Sputolysin	4	C
Deoxycorticosterone	Percortin, DOCA, Descotone, Dorcostrin	4	C
Desonite	Des Owen	4	C
Desoximetasone	Topicort	4	C
Dexamethasone	Azium, etc.	4	C
Dextromethorphan		4	B
Dibucaine	Nupercainal, Cinchocaine	4	C
Dichlorphenamide	Daramide	4	C
Diclofenac	Voltaren, Voltarol	4	C
Diflorasone	Florone, Maxiflor	4	C
Diflucortolone	Flu-Cortinest, etc.	4	C
Digitoxin	Crystodigin	4	B
Digoxin	Lanoxin	4	B
Dihydroergotamine		4	B
Diltiazem	Cardizem	4	B
Dimethisoquin	Quotane	4	B
Dimethylsulfoxide (DMSO)	Domoso	4	C
Diphenoxylate	Difenoxin, Lomotil	4	B

Listing by Classification (Continued)

Class 4: This class includes therapeutic medications that would be expected to have less potential to affect performance than those in Class 3.

Drug/Substance	Trade Name(s)	Drug Class	Penalty Class
Dipyrene	Novin, Methampyrone	4	C
Disopyramide	Norpace	4	B
Dyclonine	Dyclone	4	C
Eltenac		4	C
Ergonovine	Ergotrate	4	C
Ergotamine	Gynergen, Cafergot, etc.	4	B
Etanercept	Enbrel	4	B
Ethoheptazine	Zactane	4	B
Ethotoin	Peganone	4	B
Ethoxzolamide	Cardrase, Ethamide	4	C
Ethylaminobenzoate (Benzocaine)	Semets, etc.	4	C
Felodipine	Plendil	4	B
Fexofenadine	Allegra	4	C
Firocoxib		4	C
Flecainide	Idalon	4	B
Floctafenine	Idalon, Idarac	4	B
Flucinolone	Synalar, etc.	4	C
Fludrocortisone	Alforone, etc.	4	C
Flumethasone	Flucort, etc.	4	C
Flumethiazide	Ademol	4	B
Flunarizine	Sibelium	4	B
Flunisolide	Bronilide, etc.	4	C
Flunixin	Banamine	4	C*
Fluocinolone	Synalar	4	C
Fluocinonide	Licon, Lidex	4	C
Fluorometholone	FML	4	B
Fluoroprednisolone	Predef-2X	4	C
Fluprednisolone	Alphadrol	4	C
Flurandrenolide	Cordran	4	C
Fluticasone	Flixonase, Flutide	4	C
Guaifenesin (glycerol guaiacolate)	Gecolate	4	C
Halcinonide	Halog	4	C
Halobetasol	Ultravate	4	C
Hexocyclium	Tral	4	B
Hexylcaine	Cyclaine	4	C
Hydrochlorothiazide	Hydrodiuril	4	B
Hydrocortisone (Cortisol)	Cortef, etc.	4	C
Hydroflumethiazide	Saluron	4	B
Ibuprofen	Motrin, Advil, Nurpin, etc.	4	C
Infliximab	Remicade	4	B
Isoflupredone	Predef	4	C

Drug/Substance	Trade Name(s)	Drug Class	Penalty Class
Isometheptene	Octin, Octon	4	B
Isopropamide	Darbid	4	B
Isoxsuprine	Vasodilan	4	C
Isradipine	DynaCirc	4	B
Ketoprofen	Orudis	4	C*
Letosteine	Viscotiol, Visiotol	4	C
Loratidine	Claritin	4	B
Meclizine	Antivert, Bonine	4	B
Meclofenamic acid	Arquel	4	C
Medrysone	Medriusar, etc.	4	C
Meloxicam	Mobic	4	B
Mephenesin	Tolserol	4	B
Meralluride	Mercuhydrin	4	B
Merbaphen	Novasural	4	B
Mercaptomerin	Thiomerin	4	B
Mercumalilin	Cumertilin	4	B
Mersalyl	Salyrgan	4	B
Metaxalone	Skelaxin	4	B
Methapyrilene	Histadyl, etc.	4	B
Methazolamide	Naptazane	4	C
Methdilazine	Tacaryl	4	B
Methocarbamol	Robaxin	4	C
Methotrexate	Folex, Nexate, etc.	4	B
Methscopolamine	Pamine	4	B
Methylchlorthiazide	Enduron	4	B
Methylergonovine	Methergine	4	C
Methylprednisolone	Medrol	4	C
Methysergide	Sansert	4	B
Metiamide		4	B
Metoclopramide	Reglan	4	C
Mexilitine	Mexilil	4	B
Milrinone		4	B
Mometasone	Elocon	4	C
Montelukast	Singulair	4	C
Naepaine	Amylsine	4	C
Naphazoline	Privine	4	B
Naproxen	Equiproxen, Naprosyn	4	C
Nicardipine	Cardine	4	B
Nifedipine	Procardia	4	B
Nimodipine	Nemotop	4	B
Nortestosterone		4	C
Olsalazine	Dipentum	4	B

Listing by Classification (Continued)

Class 4: This class includes therapeutic medications that would be expected to have less potential to affect performance than those in Class 3.

Drug/Substance	Trade Name(s)	Drug Class	Penalty Class
Orphenadrine	Norlflex	4	B
Oxaprozin	Daypro, Deflam	4	C
Oxymetazoline	Afrin	4	B
Oxyphenbutazone	Tandearil	4	C
Oxyphencyclimine	Daricon	4	B
Oxyphenonium	Antrenyl	4	B
Paramethasone	Haldrone	4	C
Pentoxyfylline	Trental, Vazofirin	4	C
Phenacetamide	Phenurone	4	B
Phensuximide	Milontin	4	B
Phenylbutazone		4	C*
Phenytoin	Dilantin	4	B
Polythiazide	Renese	4	B
Pramoxine	Tronothaine	4	C
Prednisolone	Delta-Cortef, etc.	4	C
Prednisone	Meticorten, etc.	4	C
Probenecid		4	C
Procainamide	Pronestyl	4	B
Propafenone	Rythmol	4	B
Proparacaine	Ophthaine	4	C
Propylhexedrine	Benzedrex	4	B
Quinidine	Quinidex, Quinicardine	4	B
Salicylamide		4	C
Salicylate		4	C
Spironalactone	Aldactone	4	B
Sulfasalazine	Azulfidine, Azaline	4	C
Terfenadine	Seldane, Triludan	4	B
Tetrahydrozoline	Tyzine	4	B
Theobromine		4	B
Thiosalicylate		4	C
Thiphenamil	Trocinate	4	B
Tocainide	Tonocard	4	B
Tranexamic acid		4	C
Triamcinolone	Vetalog, etc.	4	C
Triamterene	Dyrenium	4	B
Trichlormethiazide	Naqua, Naquasone	4	C
Tridihexethyl	Pathilon	4	B
Trimeprazine	Temaril	4	B
Triprolidine	Actidil	4	B
Vedaprofen		4	B
Verapamil	Calan, Isoptin	4	B
Xylometazoline	Otrivin	4	B

Drug/Substance	Trade Name(s)	Drug Class	Penalty Class
Zafirlukast	Accolate	4	C
Zeranol	Ralgro	4	C
Zileuton	Zyflo	4	C

*See Recommended Penalty Section of Document

Listing by Classification (Continued)

Class 5: This class includes those therapeutic medications for which concentration limits have been established by the racing jurisdictions as well as certain miscellaneous agents and other medications as determined by the regulatory bodies.

Drug/Substance	Trade Name(s)	Drug Class	Penalty Class
Acenocoumarol		5	C
Anisindione		5	C
Cilostazol	Pletal	5	C
Cimetidine	Tagamet	5	D
Cromolyn	Intel	5	C
Dicumarol	Dicumarol	5	C
Dimethylsulphone (MSM)		5	C
Diphenadione		5	C
Esomeprazole	Nexium	5	D
Famotidine	Gaster, etc.	5	D
Lansoprazole		5	D
Mesalamine	Asacol	5	C
Misoprostel	Cytotec	5	C
Nedocromil	Tilade	5	C
Nizatidine	Axid	5	C
Omeprazole	Prilosec, Losec	5	D
Pantoprazole	Protonix	5	D
Phenindione	Hedulin	5	C
Phenprocoumon	Liquamar	5	C
Pirenzapine	Gastrozepin	5	C
Polyethylene glycol		5	C
Rabeprazole	Aciphex	5	D
Ranitidine	Zantac	5	D
Warfarin	Coumadin, Coufarin	5	C

Non-Classified Substances

Substances that are considered to have no effect on the physiology of a racing animal except to improve nutrition or treat or prevent infections or parasite infestations, are not classified. These Substances normally include antimicrobials, antiparasitic drugs, and nutrients such as vitamins. Examples of such substances include the following:

Sulfonamides and trimethoprim

Antibiotics: Penicillins
 Cephalosporins
 Chloramphenicol
 Aminoglycosides
 Tetractckubes
 Nitrofurans
 Metronidazole

Anthelmintics: Avermectins
 Benzimidazoles
 Piperazines
 Pyrantel

Antifungals
 Vitamins A,D,E,K,B vitamins
 Vitamin C

Bufotenine

1. Note: Bufotenine is not commercially available in any form.
2. Note: Bufotenine is a metabolite of 5-methoxy-N,N-dimethyltryptamine, found in reed canary grass (and potentially other food source plants). It may be found in the urine of horses eating this grass (and potentially other plant foods), and has been reported as a positive finding. Findings of bufotenine in equine urine should not be considered for regulatory action.

ARCI Controlled Therapeutic Medication Schedule for Horses - Version 3.0

Revised – March 25, 2016.

Controlled Therapeutic Medication	Threshold	Withdrawal Guideline	Dosing Specifications	Reference Notes	Note
Acepromazine	10 nanograms per milliliter as 2-(1-hydroxyethyl) promazine sulfoxide (HEPS) in urine	48 hours	Single intravenous dose of acepromazine at 0.05 milligrams per kilogram	University of California at Davis project	Applicable analyte is metabolite HEPS
Albuterol	1 nanogram per milliliter of urine	72 hours	720 micrograms total dose intra-nasal only ¹ . Based upon dosing up to 4 times per day	European Horseracing Scientific Liaison Committee Data	See Endnote
Betamethasone	10 picograms per milliliter of plasma or serum	7 days	Intra-articular administration of 9 milligrams of Betamethasone Sodium Phosphate and Betamethasone Acetate Injectable Suspension, USP (American Regent product #0517-0720-01) ²	RMTC study	Intra-articular dosing only - applicable analyte is betamethasone in plasma or serum
Butorphanol	300 nanograms per milliliter of total butorphanol in urine or 2 nanograms of free butorphanol per milliliter per milliliter of plasma or serum	48 hours	Single intravenous dose of butorphanol as Torbugesic® (butorphanol tartrate) at 0.1 milligrams per kilogram	<i>Journal of Veterinary Pharmacology and Therapeutics</i> doi: 10.1111/j.1365-2885.2012.01385.x	Applicable analytes are total butorphanol (drug and conjugates) in urine and butorphanol in plasma (the drug itself, not any conjugate)

¹ Administration of albuterol by any means other than intra-nasally has a high likelihood in resulting in a positive finding. This specifically includes oral administration. Trainers and veterinarians are cautioned against using oral albuterol

² Intramuscular administration of betamethasone acetate will result in plasma or serum concentrations that will exceed the Regulatory Threshold for weeks or even months, making the horse ineligible to race for an extended period.

Controlled Therapeutic Medication	Threshold	Withdrawal Guideline	Dosing Specifications	Reference Notes	Note
Cetirizine	6 nanograms per milliliter of plasma or serum	48 hours	0.4 milligrams per kilogram twice daily for 5 doses	Kentucky Equine Drug Research Council/University of California at Davis study	Do not administer ivermectin within 48 hours of a race if the horse has been administered cetirizine.
Cimetidine	400 nanograms per milliliter of plasma or serum	24 hours	20 milligrams per kilogram twice daily for 7 doses	Kentucky Equine Drug Research Council/University of California at Davis study	
Clenbuterol	140 picograms per milliliter of urine or Level of Detection in plasma or serum	14 days	Oral administration of clenbuterol as Ventipulmin [®] syrup (Boehringer-Ingelheim Vetmedica Inc., NADA 140-973) at 0.8 mcg/kg twice a day	University of California at Davis; Boehringer-Ingelheim Vetmedica, Inc.	Applicable analyte is clenbuterol
Dantrolene	100 picograms per milliliter of 5-hydroxydantrolene in plasma or serum	48 hours	Oral administration of 500 milligrams of dantrolene as paste (compounding pharmacy) or capsule formulation (Proctor and Gamble)	<i>Journal of Veterinary Pharmacology and Therapeutics</i> 34, 238–246	
Detomidine	1 nanogram per milliliter of carboxydetomidine in urine; Level of Detection for detomidine in plasma or serum	72 hours	Single sublingual dose detomidine (Domosedan [®] gel at 40 micrograms per kilogram)	<i>The Veterinary Journal</i> , 2012 Oct. 10 http://dx.doi.org/10.1016/j.tvjl.2012.08.016	

Controlled Therapeutic Medication	Threshold	Withdrawal Guideline	Dosing Specifications	Reference Notes	Note
Dexamethasone	5 picograms per milliliter of plasma or serum	72 hours	Intramuscular and intravenous administration of dexamethasone sodium phosphate or oral administration of dexamethasone at 0.05 milligrams per kilogram regardless of route	RMTC study	Applicable analyte is dexamethasone in plasma or serum
Diclofenac	5 nanograms per milliliter of plasma or serum	48 hours	Five inch ribbon topical application of 1% diclofenac liposomal cream formulation. (Surpass Topical Anti-Inflammatory Cream, IDEXX Pharmaceuticals)	<i>Veterinary Therapeutics</i> 6: 57-66 (2005)	Applicable analyte is diclofenac in plasma or serum
Dimethyl sulfoxide (DMSO)	10 micrograms per milliliter of plasma or serum	48 hours	Intravenous	ARCI model rule	Applicable analyte is DMSO in plasma or serum
Firocoxib	20 nanograms per milliliter of plasma or serum	14 days	Oral administration of firocoxib as EQUIOXX oral paste at a daily dose of 0.1 milligram per kilogram for four days	RMTC study	Applicable analyte is firocoxib in plasma or serum

Controlled Therapeutic Medication	Threshold	Withdrawal Guideline	Dosing Specifications	Reference Notes	Note
Furosemide	100 nanogram per milliliter of plasma or serum	4 hours	Single Intravenous dose of furosemide up to 500 milligram ³	ARCI model rule	Must also have urine specific gravity < 1.010 for a violation.
Glycopyrrolate	3 picograms per milliliter plasma or serum	48 hours	Single intravenous dose of 1 milligram of glycopyrrolate as Glycopyrrolate Injection, USP (American Regent product # 0517-4601-25)	RMTC study; <i>Journal of Veterinary Pharmacology and Therapeutics</i> doi: 10.1111/j.1365-2885.2011.01272.x	Applicable analyte is glycopyrrolate in plasma or serum
Guaifenesin	12 nanograms per milliliter of plasma or serum	48 hours	2 grams twice daily for 5 doses	Kentucky Equine Drug Research Council/University of California at Davis study	
Isoflupredone	100 picograms per milliliter of plasma or serum	7 days	10 milligrams total dose subcutaneous or 20 milligrams total dose in one articular space	RMTC Study	
Lidocaine	20 picograms per milliliter of total 30H-lidocaine in plasma or serum	72 hours	200 milligrams of lidocaine as its hydrochloride salt administered subcutaneously	European Horseracing Scientific Liaison Committee data; Iowa State University study.	Applies to total major hydroxylated metabolite (i.e., includes conjugates)

³ ARCI-011-020(F)(2)(d) and ARCI-025-020(F)(2)(d) state that the dose of Furosemide “shall not exceed 500 milligrams nor be less than 150 milligrams”.

Controlled Therapeutic Medication	Threshold	Withdrawal Guideline	Dosing Specifications	Reference Notes	Note
Mepivacaine	10 nanograms total hydroxymepivacaine per milliliter of urine or above Level of Detection of mepivacaine in plasma or serum	72 hours	Single 0.07 milligrams per kilogram subcutaneous dose of mepivacaine	European Horseracing Scientific Liaison Committee data	
Methocarbamol	1 nanogram per milliliter of plasma or serum	48 hours	Single intravenous dose of 15 milligrams per kilogram methocarbamol as Robaxin® or 5 grams orally	<i>Journal of Veterinary Pharmacology and Therapeutics</i> doi: 10.1111/jvp.12068	Applicable analyte is methocarbamol in plasma or serum
Methylprednisolone	100 picograms per milliliter of plasma or serum	See Dosing Specifications	Total dose of methylprednisolone acetate suspension in one articular space. ⁴ The recommended withdrawal for methylprednisolone acetate is a minimum of 21 days at a 100 milligram dose	<i>Journal of Veterinary Pharmacology and Therapeutics</i> volume 37, Issue 2, pages 125–132, April 2014	Applicable analyte is methylprednisolone
Omeprazole	10 nanograms per milliliter of plasma or serum	24 hours	1 tube (2.2 grams) once daily for 4 doses	Kentucky Equine Drug Research Council/University of California at Davis study	GastroGuard™ used in the study

⁴ Intramuscular administration of methylprednisolone acetate will result in plasma or serum concentrations that will exceed the Regulatory Threshold for weeks or even months, making the horse ineligible to race for an extended period. Please see Dosing Specifications for recommended withdrawal time.

Controlled Therapeutic Medication	Threshold	Withdrawal Guideline	Dosing Specifications	Reference Notes	Note
Prednisolone	1 nanogram per milliliter of plasma or serum	48 hours	1 milligram per kilogram orally		Applicable analyte is prednisolone in plasma or serum
Procaine penicillin <i>(administration must be reported to Commission)</i>	25 nanograms per milliliter of plasma or serum	Following entry to race	Intramuscular	RMTC – reference notes online	Mandatory surveillance of horse at owner's expense 6 hours before racing
Ranitidine	40 nanograms per milliliter of plasma or serum	24 hours	8 milligrams per kilogram twice daily for 7 doses	Kentucky Equine Drug Research Council/University of California at Davis study	
Triamcinolone acetonide	100 picograms per milliliter of plasma or serum	7 days	Total dose of 9 milligram in one articular space ⁵	<i>Equine Veterinary Journal</i> , 10.1111/evj.12059 (2013)	Applicable analyte is triamcinolone acetonide in plasma or serum
Xylazine	200 picograms per milliliter of plasma or serum	48 hours	200 milligrams intravenously	University of California at Davis study	Applicable analyte is xylazine.

⁵ Intramuscular administration of triamcinolone acetonide will result in plasma or serum concentrations that will exceed the Regulatory Threshold for weeks or even months, making the horse ineligible to race for an extended period.

Non-Steroidal Anti-Inflammatory Drug (NSAID) Rules for Horses^{††}

Controlled Therapeutic Medication	Threshold (Primary)	Withdrawal Guideline	Dosing Specifications	Reference Notes	Threshold (Secondary)
Flunixin	20 nanogram per milliliter of plasma or serum	32 hours	Single intravenous dose of flunixin as Banamine [®] (flunixin meglumine) at 1.1 milligram per kilogram	University of California at Davis/RMTC study	<u>Secondary anti-stacking threshold:</u> 3.0 nanograms per milliliter of plasma or serum (Administration 48 hours prior)
Ketoprofen	2 nanograms per milliliter of plasma or serum	24 hours	Single intravenous dose of ketoprofen as Ketofen [®] at 2.2 milligrams per kilogram	HFL Sport Sciences/ Kentucky Equine Drug and Research Council/RMTC study	<u>Secondary anti-stacking threshold:</u> 1 nanogram per milliliter of plasma or serum (Administration 48 hours prior)
Phenylbutazone	2 micrograms per milliliter of plasma or serum	24 hours	Single intravenous dose of phenylbutazone at 4.0 milligrams per kilogram	ARCI model rule	<u>Secondary anti-stacking threshold:</u> 0.3 micrograms per milliliter of plasma or serum (Administration 48-hours prior)

^{††} Samples collected may contain one of the NSAIDs in this chart at a concentration up to the Primary Threshold. Samples may also contain another of the NSAIDs in this chart up at a concentration up to the Secondary Threshold. No more than 2 of the NSAIDs in this chart may be present in any sample.

Table 178-1 G ARCI Endogenous, Dietary, or Environmental Substances Schedule - Version 3.0
Updated July 2015

<u>Substance</u>	<u>Threshold</u>	<u>Reason for Threshold</u>
<u>Arsenic</u>	<u>0.3 micrograms/milliliter total arsenic in urine</u>	<u>Feed Contaminant</u>
<u>Caffeine</u>	<u>100 nanograms/milliliter of serum or plasma</u>	<u>Feed Contaminant</u>
<u>Cobalt¹</u>	<u>25 ppb in blood plasma or serum</u>	<u>Endogenous Substance and Feed Contaminant</u>
<u>Estradiol</u>	<u>0.045 micrograms/milliliter, free + conjugated 5α-estrane-3β, 17α-diol, in the urine of male horses other than geldings</u>	<u>Endogenous Substance</u>
<u>Gamma Aminobutyric Acid (GABA)</u>	<u>110 nanograms/milliliter of plasma or serum</u>	<u>Endogenous Substance</u>
<u>Hydrocortisone</u>	<u>1 microgram/milliliter of urine</u>	<u>Endogenous Substance</u>
<u>Methoxytyramine</u>	<u>4 micrograms/milliliter, free + conjugated in urine</u>	<u>Endogenous Substance</u>
<u>Salicylate</u> <u>Salicylic Acid</u>	<u>750 micrograms/milliliter of urine or 6.5 micrograms/milliliter of serum or plasma</u>	<u>Feed Contaminant</u>
<u>Theobromine</u>	<u>2 micrograms/milliliter of urine or 0.3 micrograms/milliliter serum or plasma</u>	<u>Feed Contaminant</u>

¹ Penalties for cobalt vary depending on the concentration. Please see Uniform Classification Guidelines for Foreign Substances for recommended penalty for concentrations of 25 parts per billion or greater of blood plasma or serum and for concentrations of 50 parts per billion of blood plasma or serum.