



**TEXAS RACING COMMISSION**  
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May 12, 2017

Attention: Commission Veterinarians, Practicing Veterinarians, and Horsemen

Re: Permissible Levels of Therapeutic Medications and Naturally Occurring Substances

In accordance with Commission Rules §§ 319.1(b) and 319.3(b)-(c), the following substances are permissible if found at or below the following specified concentration levels in post-race samples taken from a horse.

<u>I. GENERAL MEDICATIONS</u>	<u>MAXIMUM PERMISSIBLE CONCENTRATION</u>
Acepromazine.....	HEPS 10 ng/ml of urine
Albuterol.....	1 ng/ml of urine
Betamethasone.....	10 pg/ml of plasma or serum
Butorphanol .....	300 ng/ml of total butorphanol in urine; or 2 ng of free butorphanol per ml of plasma or serum
Cetirizine.....	6 ng/ml of plasma or serum
Cimetidine.....	400 ng/ml of plasma or serum
Clenbuterol/Ventipulmin.....	140 pg/ml of urine; or level of detection in plasma or serum
Dantrolene .....	100 pg/ml of 5-hydroxydantrolene in plasma or serum
Detomidine.....	2 ng/ml of carboxydetomidine in urine; or 1 ng/ml of detomidine in plasma or serum
Dexamethasone.....	5 pg/ml of plasma or serum
Diclofenac .....	5 ng/ml of plasma or serum
Dimethylsulfoxide/DMSO.....	10 mcg/ml of plasma or serum
Firocoxib .....	20 ng/ml of plasma or serum
Flunixin.....	Primary threshold: 20 ng/ml of plasma or serum Secondary anti-stacking threshold: 3 ng/ml of plasma or serum
Furosemide.....	100 ng/ml of plasma or serum and urine specific gravity < 1.010
Glycopyrrolate.....	3 pg/ml of plasma or serum
Guaifenesin.....	12 ng/ml of plasma or serum
Isoflupredone .....	100 pg/ml of plasma or serum
Ketoprofen .....	Primary threshold: 2 ng/ml of plasma or serum Secondary anti-stacking threshold: 1 ng/ml of plasma or serum
Lidocaine .....	20 pg/ml of 3-OH-lidocaine in plasma or serum
Mepivacaine.....	10 ng/ml total 3-OH-mepivacaine in urine; or level of detection in plasma or serum
Methocarbamol.....	1 ng/ml of plasma or serum

Methylprednisolone.....	100 pg/ml of plasma or serum
Omeprazole .....	omeprazole sulfide - 10 ng/ml of plasma or serum
Phenylbutazone .....	Primary threshold: 2 mcg/ml of plasma or serum Secondary anti-stacking threshold: 0.3 mcg/ml of plasma or serum
Prednisolone.....	1 ng/ml of plasma or serum
Procaine penicillin* .....	25 ng/ml of plasma or serum
Ranitidine.....	40 ng/ml of plasma or serum
Triamcinolone acetonide.....	100 pg/ml of plasma or serum
Xylazine .....	200 pg/ml of plasma or serum

- \* Treatment with procaine penicillin also requires: (1) Notification of procaine penicillin administration to the racing secretary at time of entry  
AND  
(2) Mandatory surveillance at the horse owner's expense for six hours before racing. Coordinate with association security for provision of surveillance.

## **II. NON-STEROIDAL ANTI-INFLAMMATORY DRUGS (NSAIDs)**

The only NSAIDs that are permitted in any post-race sample are Diclofenac, Firocoxib, Flunixin, Ketoprofen, and Phenylbutazone, subject to the restrictions in Section I above. The presence of more than one NSAID in a post-race sample may constitute a NSAID stacking violation consistent with the following restrictions:

### **(A) A Class 1 NSAID Stacking Violation** occurs when:

- (1) Two non-steroidal anti-inflammatory drugs are found at individual levels determined to exceed the following restrictions:
  - (a) Diclofenac..... 5 ng/ml of plasma or serum;
  - (b) Firocoxib..... 20 ng/ml of plasma or serum;
  - (c) Flunixin..... 20 ng/ml of plasma or serum;
  - (d) Ketoprofen..... 2 ng/ml of plasma or serum;
  - (e) Phenylbutazone ..... 2 mcg/ml of plasma or serum; or
  - (f) all other non-steroidal anti-inflammatory drugs..... level of detection in plasma, serum or urine.
- (2) Three or more non-steroidal anti-inflammatory drugs are found at individual levels determined to exceed the following restrictions:
  - (a) Diclofenac..... 5 ng/ml of plasma or serum;
  - (b) Firocoxib..... 20 ng/ml of plasma or serum;
  - (c) Flunixin..... 3 ng/ml of plasma or serum;
  - (d) Ketoprofen..... 1 ng/ml of plasma or serum;
  - (e) Phenylbutazone ..... 0.3 mcg/ml of plasma or serum; or
  - (f) all other non-steroidal anti-inflammatory drugs..... level of detection in plasma, serum or urine.

### **(B) A Class 2 NSAID Stacking Violation** occurs when:

Any one substance noted in Section II(A)(1) above is found in excess of the restrictions contained therein in combination with any one of the following substances at levels below the restrictions so noted but in excess of the following levels:

- (1) Flunixin ..... 3 ng/ml of plasma or serum;
- (2) Ketoprofen ..... 1 ng/ml of plasma or serum; or
- (3) Phenylbutazone ..... 0.3 mcg/ml of plasma or serum.

### **(C) A Class 3 NSAID Stacking Violation** occurs when:

Any combination of two of the following non-steroidal anti-inflammatory drugs are found at or below the restrictions in Section II(A)(1)(a through e) above but in excess of the noted restrictions:

- (1) Flunixin ..... 3 ng/ml of plasma or serum;
- (2) Ketoprofen ..... 1 ng/ml of plasma or serum; or
- (3) Phenylbutazone ..... 0.3 mcg/ml of plasma or serum.

**III. ANDROGENIC-ANABOLIC STEROIDS**      **MAXIMUM PERMISSIBLE CONCENTRATION**

Boldenone .....	25 pg/ml of plasma or serum, regardless of sex 1 ng/ml of urine for fillies, mares, and geldings 15 ng/ml of urine in male horses other than geldings
Nandrolone .....	25 pg/ml of plasma or urine for fillies, mares, and geldings 1 ng/ml of urine for fillies, mares and geldings 45 ng/ml (as 5 $\alpha$ -estrane-3 $\beta$ , 17 $\alpha$ -diol) of urine in male horses other than geldings
Testosterone.....	25 pg/ml of plasma or serum for fillies, mares, and geldings 55 ng/ml of urine in fillies and mares (unless in foal) 20 ng/ml or urine in geldings

**IV. TOTAL CARBON DIOXIDE**      **MAXIMUM PERMISSIBLE CONCENTRATION**

Total Carbon Dioxide.....	Must remain below 37 mmol/L of serum
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Respectfully,



Robert James, DVM  
Veterinary Medical Director

APPROVED:

  
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Chuck Trout, Executive Director