

1.1 **Minnesota Racing Commission**

1.2 **Adopted Permanent Rules Relating to Horse Racing**

1.3 **7890.0100 DEFINITIONS.**

1.4 [For text of subps 1 to 10a, see M.R.]

1.5 Subp. 10b. **Feed contaminant.** Substances in equine feed arising from
1.6 contamination during cultivation, processing or treatment, storage, or transportation.

1.7 Subp. 10c. **Flunixin meglumine.** "Flunixin meglumine" is a nonsteroidal
1.8 anti-inflammatory drug with the chemical name 3-pyridine-carboxylic acid.

1.9 Subp. 10d. **Furosemide.** "Furosemide" means
1.10 4-chloro-N-furfuryl-5-sulfamoylanthranilic acid.

1.11 Subp. 10e. **Growth factor.** "Growth factor" means a substance that promotes
1.12 cellular growth.

1.13 Subp. 10f. **Hemopure®.** "Hemopure®" is a chemically stabilized bovine
1.14 cross-linked hemoglobin that carries oxygen to tissues. Chemically it is hemoglobin
1.15 glutamer-250 (bovine) or HBOC-201.

1.16 [For text of subps 11 to 21, see M.R.]

1.17 **7890.0110 MEDICATIONS AND PRACTICES PROHIBITED.**

1.18 [For text of subps 1 to 7, see M.R.]

1.19 Subp. 7a. **Androgenic-anabolic steroids (AAS).** No Androgenic-anabolic steroids
1.20 (AAS) shall be permitted in test samples collected from racing horses except for
1.21 residues of the major metabolite of stanozolol, nandrolone, and naturally occurring
1.22 substances boldenone and testosterone at concentrations less than the indicated thresholds.
1.23 Concentrations of these AAS shall not exceed the following plasma or serum thresholds

2.1 for unchanged (i.e. not conjugated) substance or urine threshold concentrations for total
2.2 (i.e., free drug or metabolite and drug or metabolite liberated from its conjugates):

2.3 A. Stanozolol - 1 ng/ml of total 16 β -hydroxystanozolol (metabolite of
2.4 stanozolol) in urine of all horses regardless of sex; or 25 pg/ml of stanozolol in plasma
2.5 or serum of all horses regardless of sex.

2.6 B. Boldenone - 15 ng/ml of total boldenone in urine of male horses other than
2.7 geldings; or 25 pg/ml of boldenone in plasma or serum of all horses regardless of sex.

2.8 C. Nandrolone:

2.9 (1) in geldings - 1 ng/ml total nandrolone in urine or 25 pg/ml of
2.10 nandrolone in plasma or serum;

2.11 (2) in fillies and mares - 1 ng/ml total nandrolone in urine or 25 pg/ml of
2.12 nandrolone in plasma or serum; and

2.13 (3) in male horses other than geldings - 45 ng/ml of metabolite,
2.14 5 α -oestrane-3 β , 17 α -diol in urine.

2.15 D. Testosterone:

2.16 (1) in geldings - 20 ng/ml total testosterone in urine or 25 pg/ml of
2.17 testosterone in plasma or serum;

2.18 (2) in fillies and mares - 55 ng/ml total testosterone in urine or 25 pg/ml of
2.19 testosterone in plasma or serum;

2.20 (3) in fillies and mares that are confirmed at the time of racing as being
2.21 pregnant, testosterone is not regulated; and

2.22 (4) in male horses other than geldings testosterone is not regulated under
2.23 this rule.

2.24 All other AAS are prohibited in racing horses.

3.1 The sex of all horses shall be identified on all samples sent to the laboratory. Any
3.2 horse to which one of these AAS has been administered in order to assist in the recovery
3.3 from an illness or injury may be placed on the veterinarian's list in order to monitor the
3.4 concentration of the drug or metabolite in urine. After the concentration has fallen below
3.5 the designated threshold for the administered AAS, the horse is eligible to be removed
3.6 from the list.

3.7 [For text of subp 8, see M.R.]

3.8 Subp. 9. **Feed contaminants.** No feed contaminants other than those listed below
3.9 shall be allowed in the test sample of a horse. Levels shall not exceed:

- 3.10 A. atropine: 10 ng/ml in urine;
- 3.11 B. benzoylecgonine (major urine metabolite of cocaine): 50 ng/ml in urine;
- 3.12 C. caffeine: 100 ng/ml in urine;
- 3.13 D. morphine glucuronides: 50 ng/ml in urine; or
- 3.14 E. theobromine: 2,000 ng/ml in urine.