



CONTROLLED THERAPEUTIC MEDICATIONS

Substance	Withdrawal Guideline	Threshold	Route of Administration	Experimental Administration Dosage
Acepromazine	48 hours	HEPS - 10 ng/mL of urine	Intravenous	0.05 mg/kg
Albuterol	72 hours	1 ng/mL of urine	Intra-nasal ¹	720 mcg total dose
Betamethasone	7 days	10 pg/mL of plasma or serum	Intra-articular as betamethasone acetate and betamethasone sodium phosphate	9 mg total in one articular space
Butorphanol	48 hours	Free butorphanol 2 ng/ml of plasma or serum or total butorphanol 300 ng/ml of urine	Intravenous	0.1 mg/kg
Clenbuterol	14 days	140 pg/mL in urine or LOD in plasma or serum	Orally	0.8 mcg/kg twice daily (max. 30 days)
Dantrolene	48 hours	5-OH dantrolene 0.1 ng/mL of plasma or serum	Orally	500 mg total dose
Detomidine	72 hours	Carboxydetomidine 1 ng/mL of urine or LOD of detomidine in plasma or serum	Sublingual (Dormosedan Gel)	40 mcg/kg sublingual
Dexamethasone	72 hours	5 pg/mL of plasma or serum	Intravenous, oral, and intramuscular	0.05 mg/kg
Diclofenac	48 hours	5 ng/mL of serum or plasma	Systemic	5" ribbon of Surpass every 12 hours to one site
DMSO	48 hours	10 mcg/mL of plasma or serum	Topical	Up to two ounces
Firocoxib	14 days	20 ng/mL of plasma or serum	Orally	0.1 mg/kg for 4 days
Flunixin	32 hours	20 ng/mL of serum or plasma	Intravenous	1.1 mg/kg

¹ Note: Administration of albuterol other than via intra-nasal routes is not recommended. Use of therapeutic doses of oral albuterol even outside of the recommended withdrawal guidelines carries a substantial risk of exceeding the regulatory threshold.

Furosemide	4 hours	100 ng/mL in blood and urine specific gravity < 1.010	Intravenous	500 mg total dose
Glycopyrrolate	48 hours	3 pg/mL of serum or plasma	Intravenous	1 mg total dose
Isoflupredone	7 days	100 pg/mL of serum or plasma	Subcutaneous or Intra-articular administration of isoflupredone acetate	10 mg total dose subcutaneous or 20 mg total dose in one articular space
Ketoprofen	24 hours	2 ng/mL of serum or plasma	Intravenous	2.2 mg/kg
Lidocaine	72 hours	20 pg/mL of total 3-OH-lidocaine in plasma or serum	Subcutaneous	200 mg total dose
Mepivacaine	72 hours	3-OH-mepivacaine - 10 ng/mL in urine or mepivacaine at LOD in plasma or serum	Subcutaneous – distal limb	0.07 mg/kg
Methocarbamol	48 hours	1 ng/mL of serum or plasma	Intravenous and Oral	15 mg/kg IV; 5 g orally
Methylprednisolone	7 days	100 pg/mL in plasma or serum	Intra-articular as methylprednisolone acetate	100 mg total in one articular space ²
Omeprazole	24 hours	omeprazole sulfide - 1 ng/mL in urine	Orally	3.9 mg/kg
Phenylbutazone	24 hours ³	2 mcg/mL of serum or plasma	Intravenous	4.0 mg/kg
Prednisolone	48 hours	1 ng/ml of serum or plasma	Orally	1 mg/kg
Procaine penicillin ⁴		25 ng/mL of serum or plasma	Intra-muscular	17 mg/kg
Triamcinolone acetonide	7 days	100 pg/mL of plasma or serum	Intra-articular	9 mg total in one articular space
Xylazine	48 hours	0.01 ng/mL of plasma or serum	Intravenous	Up to 1 mg/kg

² Note: At the 100 mg experimental dose, the safe time for administration to meet the 100 pg/mL threshold was 21 days – the 7 day withdrawal guideline anticipates that protocols vary and a smaller dose may be utilized which may allow plasma concentrations to fall below the threshold more quickly.

³ This withdrawal guideline is based upon the historic prohibition on administration within 24 hours of racing. Please note that intravenous administration at a dose of 4 mg/kg at 24 hours before racing may result in some phenylbutazone concentrations that are above the regulatory threshold.

⁴ Also requires: 1. Mandatory notification of procaine penicillin administration and 2. mandatory surveillance at the horse owner's expense for 6 hours before racing