



# MINNESOTA

## Therapeutic Substances

Substance	Restricted Admin Time (est)*	Threshold	Route of Admin
Acepromazine	96 hours	10 ng/mL of urine	Intravenous
Betamethasone	7 days	not available	Intra-articular
Butorphanol	48 hours	not available	Intravenous
Clenbuterol	72 hours/ 5 days (chronic use)	25 pg/mL in serum	Orally
Dantrolene	48 hours	0.1 ng/mL in serum	Orally
Detomidine	48 hours	10 ng/mL in urine	Intravenous
Dexamethasone	48 hours	0.1 ng/mL in serum	Intravenous
**Diclofenac	48 hours	2 ng/mL in serum	Topical
DMSO	48 hours	10 mcg/mL in serum	Intravenous, Orally
Firocoxib	10-14 days	40 ng/mL in serum	Orally
Flunixin	24 hours	not available	Intravenous
Furosemide	4 hours	not available	Intravenous
Glycopyrrolate	48 hours	2.0 pg/mL in serum	Intravenous
Ketoprofen	24 hours	not available	Intravenous
Lidocaine	72 hours	not available	Subcutaneous – distal limb
Mepivacaine	72 hours	not available	Subcutaneous – distal limb
Methocarbamol	48 hrs (IV)/96 hrs (O)	1 ng/mL in serum	Intravenous
Methylprednisolone	17 days	0.1 ng/mL in serum	Intra-articular
Omeprazole	24 hours	not available	Orally
Phenylbutazone	24 hours	2 mcg/mL	Intravenous
Prednisolone	48 hours	not available	Orally
Procaine penicillin	Time of entry	not available	Intra-muscular
Triamcinolone acetonide	5 days (IA) 48 hrs (IV)	0.1 ng/mL in serum	Intra-articular (IA) Intravenous (IV)
Xylazine	48 hours	not available	Intravenous

\* Withdrawal times apply to single doses, not multiple. NOTE: In 2-year-olds, phenylbutazone is the only nonsteroidal anti-inflammatory (NSAID) permitted.

\*\* Slowly eliminated; may potentially be detected in urine for up to seven days or more.

Threshold concentrations are as follows: mcg=micrograms (1 millionth of a gram); ng=nanograms (1 billionth); pg=picograms (1 trillionth)

Rules effective as of May 13, 2013. The threshold for phenylbutazone went into effect May 20, 2013.