

**ARCI Endogenous, Dietary, or Environmental Substances Schedule - Version 4.0**  
**Updated December 2018**

Substance	Threshold	Reason for Threshold
Arsenic	0.3 micrograms/milliliter total arsenic in urine	Feed Contaminant
Caffeine	100 nanograms/milliliter of serum or plasma	Feed Contaminant
Cobalt <sup>1</sup>	25 ppb in blood plasma or serum	Endogenous Substance and Feed Contaminant
Estradiol	0.045 micrograms/milliliter, free + conjugated 5 $\alpha$ -estrane-3 $\beta$ , 17 $\alpha$ -diol, in the urine of male horses other than geldings	Endogenous Substance
Gamma Aminobutyric Acid (GABA)	110 nanograms/milliliter of plasma or serum	Endogenous Substance
Hydrocortisone	1 microgram/milliliter of urine	Endogenous Substance
Methoxytyramine	4 micrograms/milliliter, free + conjugated in urine	Endogenous Substance
Morphine	30 ng/ml total morphine in urine	Feed Contaminant
Salicylate Salicylic Acid	750 micrograms/milliliter of urine or 6.5 micrograms/milliliter of serum or plasma	Feed Contaminant
Theobromine	2 micrograms/milliliter of urine or 0.3 micrograms/milliliter serum or plasma	Feed Contaminant

<sup>1</sup> 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.

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Recent Document Revisions

Date	Version	Substance	Description of Change
December 2018	4.0	Morphine	Added to List at 30 ng/ml urine
July 2015	3.0	Salicylate Salicylic Acid	Corrected typographical error in measurement to “6.5 micrograms/ <b>milliliter</b> of serum or plasma”
July 2015	3.0	Gamma Aminobutyric Acid (GABA)	Added to List
April 2015	2.0	Cobalt	Added to List
December 2013	1.0	Arsenic, Caffeine, Estradiol, Hydrocortisone, Methoxytyramine, Salicylate and Salicylic Acid, Theobromine	Document Created