

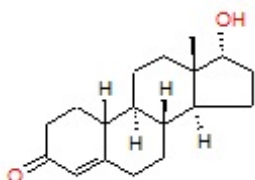
## Drug Status Report

**Drug:** Epinandrolone

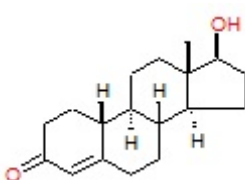
**Drug Name Status:** 17 $\alpha$ -Hydroxyestr-4-en-3-one

**Other Names:** Estr-4-en-3-one, 17 $\alpha$ -hydroxy-; 4-Estren-17 $\alpha$ -ol-3-one; 17 $\alpha$ -Nandrolone; 17 $\alpha$ -19-nortestosterone

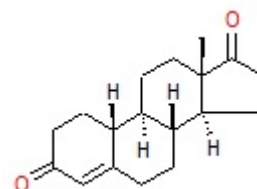
**Chemical structure:**



Epinandrolone



Nandrolone



19-Norandrostenedione

**Molecular Formula:** C<sub>18</sub>H<sub>26</sub>O<sub>2</sub>

**Pharmacological class / Application:** steroid

**International status:**

US: The substance is considered an anabolic steroid and is listed for inclusion on Schedule III of the US Controlled Substances Act.

United Nations: The substance is not listed on the Yellow List - List of Narcotic Drugs under International Control. The drug is not listed on the Green List - List of Psychotropic Substances under International Control.

Canadian Status: Epinandrolone is not listed specifically on any of the Schedules to the CDSA. However, the substance is a major metabolite of nandrolone and of 19-norandrostenedione<sup>1,2</sup>, both of which are included under Item 23 of Schedule IV, "Anabolic steroids and their derivatives", to the CDSA.

Recommendation: Epinandrolone is included in item 23 of Schedule IV to the CDSA and is a

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<sup>1</sup>Searth, J. *et al.* (2009) Presence and metabolism of endogenous androgenic-anabolic steroid hormones in meat-producing animals: a review, *Food Additives and Contaminants*, **26**:640-671.

<sup>2</sup>Dehennin, L. *et al.* (2002) Human nutritional supplements in the horse: comparative effects of 19-norandrostenedione and 19-norandrostenediol on the 19-norsteroid profile and consequences for doping control, *J. Chromatogr. B.* **766**:257-263.

controlled substance.

February 23<sup>rd</sup> 2010.