



**STATUS DECISION OF CONTROLLED AND NON-CONTROLLED SUBSTANCE(S)**

Substance: 17a-Methyl-etioallocholan-2-ene-17b-ol

Based on the current information available to the Office of Controlled Substances, it appears that the above substance is:

Controlled  X  
Not Controlled

under the schedules of the *Controlled Drugs and Substances Act* (CDSA) for the following reason(s):

- The drug is currently not listed specifically on the CDSA
- Studies have shown that the substances activity has been correlated to anabolic activity (see report below).

Supporting document(s) attached:

Prepared by: \_\_\_\_\_ Date: \_\_\_\_\_  
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Approved by: \_\_\_\_\_ Date: \_\_\_\_\_  
DIRECTOR, OFFICE OF  
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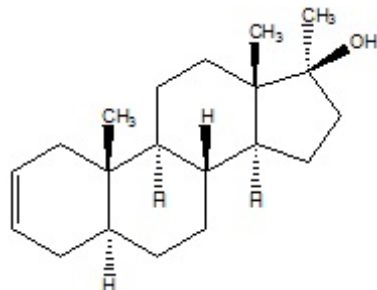
## Drug Status Report

**Drug:** 17a-Methyl-etioallocholan-2-ene-17b-ol

**Drug Name Status:** 17a-methyl-etioallocholan-2-ene-17b-ol is a common name

**Chemical Name:** 17-methyl-5a-androst-2-en-17-b-ol

**Chemical structure:**



**Molecular Formula:** C<sub>20</sub>H<sub>32</sub>O

**Pharmacological class / Application:** steroid

**International status:**

US: The term "anabolic steroid" is defined in the CSA as any drug or hormonal substance, chemically and pharmacologically related to testosterone (other than estrogens, progestins, and corticosteroids) that promotes muscle growth..." Due to its anabolic activity (see below) 17a-methyl-etioallocholan-2-ene-17b-ol is likely controlled under Schedule III to the CSA.

United Nations: The chemical 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: The drug is currently not listed specifically on the CDSA. Item 23 of Schedule IV to the CDSA is "Anabolic steroids and their derivatives." Nutting, Klimstra and Counsell<sup>1</sup> reported that 17a-methyl-etioallocholan-2-ene-17b-ol had about 11% of the myotrophic (a measure of growth in the rat levator ani, a sex-specific muscle)

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<sup>1</sup> Nutting EF, Klimstra PD and Counsell RE, Acta Endocrinologica, 53, 627 (1966)

activity which has been correlated to anabolic activity. Counsell et al<sup>2</sup> confirm that other authors had determined the subject substance had anabolic activity and that they had found that the substance had 12 times the anabolic activity of methyltestosterone.

Recommendation: Based on this information, 17a-methyl-etioallocholan-2-ene-17b-ol is included in the Item 23 of Schedule IV to the CDSA (anabolic steroids) and is a controlled substance.

February 9, 2006

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<sup>2</sup> Counsell RE, Adelstein GW, Klimstra PD and Smith B, Journal of Medicinal Chemistry 9(5), 685-9 (1966)