Drug Status Report

**Drug:** 16alpha-hydroxyepiandrostosterone (I); 16alpha-hydroxyandrosterone (II)

**Drug Name Status:** 16alpha-hydroxyepiandrostosterone; 16alpha-hydroxyandrosterone are the common names

**Chemical Name:** I - (3beta,5alpha,16alpha)-3,16-dihydroxy-androstan-17-one
II - 3alpha,5alpha,16alpha)-3,16-dihydroxy-androstan-17-one

**Chemical structure:**

![Chemical structure of I and II](image)

**Molecular Formula:** I and II - \( \text{C}_{19}\text{H}_{30}\text{O}_3 \)

**Pharmacological class / Application:** steroid

**International status:**

US: The substances are not included specifically in the Schedules to the CSA and are not mentioned on the DEA website.

United Nations: The substances are not listed on the Yellow List - List of Narcotic Drugs under International Control nor on the Green List - List of Psychotropic Substances under International Control

Canadian Status: Epiandrosterone and androsterone - substances I and II without the 16-hydroxy group - are known metabolites of testosterone. However, neither I nor II are metabolites (derivatives) of testosterone. Neither I nor II have anabolic acitivity.

Recommendation: 16alpha-hydroxyepiandrostosterone and 16alpha-hydroxyandrosterone are not included in item 23 of Schedule IV and are not controlled substances.

February 27, 2008