

## Drug Status Report

### Drug:

**I** - 4,4-dimethyl-5 $\alpha$ -androstane-3 $\beta$ ,17 $\beta$ -diol

**II** - 17 $\alpha$ -ethynyl-5 $\alpha$ -androstane-3 $\beta$ ,17 $\beta$ -diol, 3-acetate

**III** - 17 $\alpha$ -ethynyl-5 $\alpha$ -androstane-3 $\beta$ ,17 $\beta$ -diol, diacetate

### Drug Name Status:

**I** - 4,4-dimethyl-5 $\alpha$ -androstane-3 $\beta$ ,17 $\beta$ -diol is the common name

**II** - 17 $\alpha$ -ethynyl-5 $\alpha$ -androstane-3 $\beta$ ,17 $\beta$ -diol, acetate is the common name

**III** - 17 $\alpha$ -ethynyl-5 $\alpha$ -androstane-3 $\beta$ ,17 $\beta$ -diol, diacetate is the common name

### Chemical Name:

**I** - 4,4-dimethyl-5 $\alpha$ -androstane-3 $\beta$ ,17 $\beta$ -diol

**II** - (3 $\beta$ ,17 $\alpha$ )-Pregna-20-yn-3,17-diol, 3-acetate

**III** - (3 $\beta$ ,17 $\alpha$ )-Pregna-20-yn-3,17-diol, diacetate

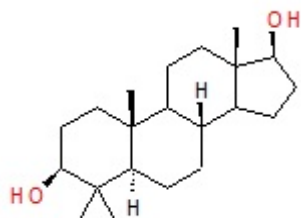
### Other Names:

**I** - 4,4'-dimethyl-3 $\beta$ ,17 $\beta$ -androstenediol; 5 $\alpha$ -androstane-3 $\beta$ ,17 $\beta$ -diol, 4,4'-dimethyl-

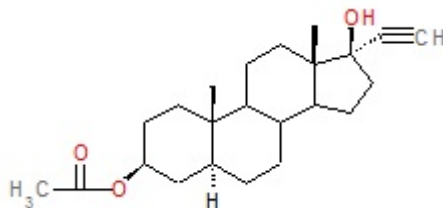
**II** - 17 $\alpha$ -ethynyl-androstane-3 $\beta$ ,17 $\beta$ -diol, 3-acetate; Pregna-20-yn-3,17-diol (3 $\beta$ ,17 $\alpha$ ) acetate; 17-hydroxy-17-(1-ethynyl)-androstane (17 $\beta$ ), 3-acetate

**III** - 17 $\alpha$ -ethynyl-androstane-3 $\beta$ ,17 $\beta$ -diol, diacetate; 17 $\alpha$ -ethynyl-estrane-3 $\beta$ ,17 $\beta$ -diol diacetate, 17 $\alpha$ -ethynyl-estrane-3 $\beta$ ,17 $\beta$ -diol acetate, 17 $\alpha$ -Pregna-20-yn-3 $\beta$ ,17 $\beta$ -diol diacetate, 3 $\beta$ ,17 $\beta$ -diacetoxy-17 $\alpha$ -pregna-20-yn

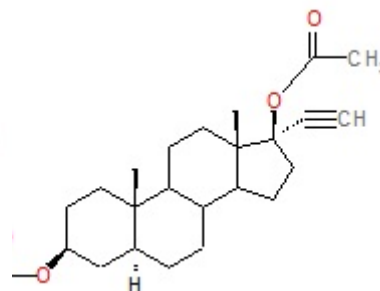
### Chemical structure:



**I**



**II**



**III**

**Molecular Formula:** **I** - C<sub>21</sub>H<sub>36</sub>O<sub>2</sub>; **II** - C<sub>23</sub>H<sub>34</sub>O<sub>3</sub>; **III** - C<sub>25</sub>H<sub>36</sub>O<sub>4</sub>

**Pharmacological class / Application:** steroid

**International status:**

US: The substances are not listed on 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. The drugs are not listed on the Green List - List of Psychotropic Substances under International Control.

Canadian Status: 4,4-dimethyl-5 $\alpha$ -androstane-3 $\beta$ ,17 $\beta$ -diol, 17 $\alpha$ -ethynyl-5 $\alpha$ -androstane-3 $\beta$ ,17 $\beta$ -diol, 3-acetate and 17 $\alpha$ -ethynyl-5 $\alpha$ -androstane-3 $\beta$ ,17 $\beta$ -diol, diacetate are synthetic steroids and have not been reported in the literature to display any anabolic activity.

Recommendation: 4,4-dimethyl-5 $\alpha$ -androstane-3 $\beta$ ,17 $\beta$ -diol, 17 $\alpha$ -ethynyl-5 $\alpha$ -androstane-3 $\beta$ ,17 $\beta$ -diol, 3-acetate and 17 $\alpha$ -ethynyl-5 $\alpha$ -androstane-3 $\beta$ ,17 $\beta$ -diol, diacetate are not included in the schedules to the CDSA and are not controlled substances.

December 4<sup>th</sup>, 2009.