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

Substance: Dihydrotestosterone sulfate

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 substance is a metabolite of androstanolone and is controlled under sub-Item 23(2) of Schedule IV to the CDSA.

Prepared by:  ____________________________  Date:  ______________
             Zack Li

Verified by:  ____________________________  Date:  ______________
             Mark Kozlowski

Approved by:  __________________________________  Date:  ______________
            DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES

This status was requested by:  Nacer Silarbi, OCS
Drug Status Report

**Drug:** Dihydrotestosterone sulfate

**Drug Name Status:** Dihydrotestosterone sulfate is the common name.

**Chemical Name:** (5S,8R,9S,10S,13S,14S,17S)-10,13-dimethyl-3-oxohexadecahydro-1H-cyclopenta[a]phenanthren-17-yl hydrogen sulfate

**Other Names:** DHT-sulfate; 5α-dihydrotestosterone sulfate

**Chemical structure:**

![Chemical structure of Dihydrotestosterone sulfate](image)

**Molecular Formula:** \(C_{19}H_{30}O_5S\)

**Pharmacological class / Application:** Steroid derivative

**CAS-RN:** N/A

**International status:**

US: Dihydrotestosterone sulfate is not listed specifically in the Schedules to the US *Controlled Substances Act* and is not mentioned anywhere on the DEA website.

United Nations: The substance is not listed on the Yellow List - List of Narcotic Drugs under International Control, the Green List - List of Psychotropic Substances under International Control, nor the Red List - List of Precursors and Chemicals Frequently Used in the Illicit Manufacture of Narcotic Drugs and Psychotropic Substances under International Control.

Canadian Status: Dihydrotestosterone sulfate is not listed specifically in the CDSA. The substance is a urinary metabolite of dihydrotestosterone\(^1\), which is listed as Sub-Item 23(2) Androstanolone (17b-hydroxy-5α-androstan-3-one) in Schedule IV to the CDSA under the heading “Anabolic steroids and their derivatives”. Accordingly, as a metabolite of androstanolone, dihydrotestosterone sulfate must be included under Sub-Item 23(2) of Schedule IV to the CDSA.

**Recommendation:** Dihydrotestosterone sulfate is included under Sub-Item 23(2) of Schedule IV to the CDSA and is a controlled substance.

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Date: May 31st, 2012.