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

Substance:  I- 2beta-Hydroxy Testosterone 2,17-Diacetate
           II- 2alpha-Hydroxy Testosterone 2,17-Diacetate

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 substances are metabolites of testosterone and are captured under item 23 of
     Schedule IV to the CDSA.

Prepared by:  _______________________________       Date:  _____________
              Vincent Marleau

Verified by:  _______________________________       Date:  _____________
              Mark Kozlowski

Approved by:  _______________________________       Date:  _____________
              DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES

This status was requested by:   “third party information removed as per agreement with applicant”
Drug Status Report

Drug:  
I- 2beta-Hydroxy testosterone 2,17-diacetate  
II- 2alpha-Hydroxy testosterone 2,17-diacetate

Drug Name Status:  
I- 2beta-Hydroxy testosterone 2,17-diacetate  
II- 2alpha-Hydroxy testosterone 2,17-diacetate are the common names.

Chemical Name:  
I- 2beta-Hydroxy testosterone 2,17-diacetate  
II- 2alpha-Hydroxy testosterone 2,17-diacetate

Other Names:
I- 2β,17β-Diacetoxy-4-androsten-3-one; Androst-4-ene-2β,17β-diol-3-one diacetate; 2β-Hydroxy testosterone 2,17-diacetate; 2beta-Hydroxy testosterone 2,17-diacetate.  
II- (2α,17β)-2,17-Bis(acetyloxy)-androst-4-en-3-one; 2α,17β-Diacetoxyandrost-4-en-3-one; NSC 9787; 2α-Hydroxy testosterone 2,17-diacetate; 2alpha-Hydroxy testosterone 2,17-diacetate.

Chemical structure:

![Chemical Structure](image)

Molecular Formula:  
I- C_{23}H_{32}O_{5}; II- C_{23}H_{32}O_{5}  
CAS-RN: I- 21936-10-7; II- 21936-08-3

Pharmacological class / Application:  
Testosterone derivatives

International status:

US: 2beta-Hydroxy testosterone 2,17-diacetate and 2alpha-hydroxy testosterone 2,17-diacetate are not listed specifically in the Schedules to the US Controlled Substances Act and are not mentioned anywhere on the DEA website.

United Nations: The substances are 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: 2beta-Hydroxy testosterone 2,17-diacetate and 2alpha-hydroxy testosterone 2,17-diacetate are not listed specifically in the CDSA. The substances are metabolites of testosterone, which is listed as sub-item 23(40) of Schedule IV to the CDSA under the heading “Anabolic steroids and their derivatives including;”. As metabolites of testosterone, 2beta-hydroxy testosterone 2,17-diacetate and 2alpha-hydroxy testosterone 2,17-diacetate are captured under item 23 of Schedule IV to the CDSA.
**Recommendation:** 2beta-Hydroxy testosterone 2,17-diacetate and 2alpha-hydroxy testosterone 2,17-diacetate are included under item 23 of Schedule IV to the CDSA and are controlled substances.

**Date:** July 25th, 2012.