



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

Substance:	I - 7beta-Tibolone II - Tibolone- ¹³ CD3 3-ethylene ketal	
Based on the of the above subs	current information available to the Office of Contro stance is:	lled Substances, it appears that
	Controlled	
	Not Controlled	
under the schereason(s):	edules of the Controlled Drugs and Substances Act (CDSA) for the following
•	The substances have not been reported in the literat nor display any anabolic activity.	ture to be derivatives of tibolon
Prepared by:		Date: Nov 17th 2010
	Evelyn Soo	
Verified by:		Date:
	Marianne Tang	
A d la		Detai
Approved by:	DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES	Date:
This status was requested by: "third party information removed as per agreement with applicant"		

Drug Status Report

Drug:

I - 7beta-Tibolone

II - Tibolone-¹³CD3 3-ethylene ketal

Drug Name Status:

I - 7beta-Tibolone

II - Tibolone-¹³CD3 3-ethylene ketal

Chemical Name:

I - (7beta,17alpha)-17-Hydroxy-7-methyl-19-norpregn-5(10)-en-20-yn-3-one

II - (7alpha,17alpha)-17-Hydroxy-7-(Methyl-¹³C,d3)-19-norpregn-5(10)-en-20-yn-3-one, cyclic 1,2-ethanediyl acetal

Chemical structure:

Molecular Formula: I - $C_{21}H_{28}O_2$; II - $C_{22}^{13}CH_{29}D_3O_3$.

Pharmacological class / Application: Steroid

CAS RN: I - 100239-44-9; II - NONE

International status:

US: 7beta-Tibolone and tibolone-¹³CD3 3-ethylene ketal are not listed in the Schedules to the CSA and are not mentioned anywhere on the DEA website.

United Nations: 7beta-Tibolone and tibolone-¹³CD3 3-ethylene ketal are not listed on the Yellow List - List of Narcotic Drugs under International Control, nor the Green List - List of Psychotropic Substances under International Control.

Canadian Status: 7beta-Tibolone and tibolone¹³CD3 3-ethylene ketal are not listed specifically it the CDSA. 7beta-Tibolone is an epimer of tibolone whereby the methyl group is in the beta position rather than the alpha position. The substance is claimed to be an impurity related to the

synthesis of tibolone and there is no evidence in the scientific literature to indicate that 7-beta tibolone displays any anabolic activity nor that it is derived from tibolone. Tibolone ¹³CD3 3-ethylene ketal is the labelled form of tibolone-3-ethylene ketal and is claimed to be a starting material used in the synthesis of tibolone ¹³C,d3. While tibolone-¹³C,d3 would be considered controlled under item 23(41) of Schedule IV to the CDSA, the substance also has not been shown in the scientific literature to be derived from tibolone nor to display any anaboic activity. Accordingly, 7beta-Tibolone and tibolone ¹³CD3 3-ethylene ketal cannot be included under the heading "Anabolic steroids and their derivatives" of item 23 of Schedule IV to the CDSA.

Recommendation: 7beta-Tibolone and tibolone-¹³CD3 3-ethylene ketal are not included under item 23 of Schedule IV to the CDSA and are not controlled substances.

November 17th 2010