



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

Substance:	Methasterone	
	urrent information available to appears that the above substant	
	Controlled	X
	Not Controlled	
under the scheo following reaso		s and Substances Act (CDSA) for the
	23(19)) and may even repres	ed structurally to mebolazine (item ent the active moiety in mebolazine. nabolic activity <sup>1</sup> . It was found to be a agent in rat.
Supporting doc	nument(s) attached: $X$ ( Drug	Status Report by Mr. LeBelle's)
Prepared by:		Date: May 18, 2006
	Xiao Peng Feng	
Drug Status Re	port by <u>: MICHAEL LEBEL</u>	LE Date: May 17, 2006
Approved by:	DIRECTOR, OFFICE OF CONTROLLED SUBSTA	

## Drug Status Report

**Drug:** Methasterone

**Drug Name Status**: Methasterone is the common name.

Chemical Name: 17beta-Hydroxy-2alpha,17-dimethyl-5alpha-androstan-3-one

## **Chemical structure:**

**Molecular Formula:** C<sub>21</sub>H<sub>34</sub>O<sub>2</sub>

Pharmacological/chemical class / Application: Anabolic steroid

## International status:

US: The substance is not listed on the US Controlled Substances Act and is not mentioned on the DEA website. However, the definition of anabolic steroid in the Act includes, "any drug or hormonal substance, chemically and pharmacologically related to testosterone (other than estrogens, progestins, and corticosteroids) that promotes muscle growth." The DEA would need to confirm the status of the substance under the CSA.

United Nations: The substance is 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: Methasteroue is not listed specifically in item 23 of Schedule IV to the CDSA, "Anabolic steroids and their derivatives." Methasterone is closely related structurally to mebolazine (item 23(19)) and may even represent the active moiety in mebolazine. Methasterone has inherent anabolic activity<sup>2</sup>. It was found to be a potent orally active anabolic agent in rat.

<sup>&</sup>lt;sup>2</sup> Ringold, H. J.; Batres, E.; Halpern, O.; Necoechea, E. Journal of the American Chemical Society (1959), 81, 427-32.

Recommendation: Methasterone is included in item 23 of Schedule IV to the CDSA and is a controlled substance.		