Health Canada Santé Canada

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

Substance: Lynoestrenol

Based on the current information available to the Office of Controlled Substances, it appears that the above substance is:

Controlled ☐
Not Controlled ✓

under the schedules of the *Controlled Drugs and Substances Act* (CDSA) for the following reason(s):

- The substance does not display any anabolic activity and is not included under Item 23 of Schedule IV to the CDSA.

Prepared by: _____ Date: February 21st, 2012
Vincent Marleau

Verified by: _____ Date: _____
Mark Kozlowski

Approved by: _____ Date: _____
DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES

This status was requested by: Marnie Burr

Drug Status Report

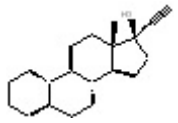
Drug: Lynoestrenol

Drug Name Status: Lynoestrenol is the common name.

Chemical Name: 19-Nor-17-alpha-pregn-4-en-20-yn-17-ol

Other Names: (17-alpha)-19-Norpregn-4-en-20-yn-17-ol; 17-alpha-Ethinyl-17-beta-hydroxyestr-4-ene; 17-alpha-Ethinyl-17-beta-hydroxyoestr-4-ene; 17-alpha-Ethynil-delta-4-estrene-17-beta-ol; 17-alpha-Ethynylestr-4-en-17-beta-ol; 17-alpha-Ethynylestrenol; 17-alpha-Ethynyloestr-4-en-17-beta-ol; 17-alpha-Ethynyloestrenol; 17alpha-Ethynylestrenol.

Chemical structure:



Molecular Formula: $C_{20}H_{28}O$

Pharmacological class / Application: Steroid

CAS-RN: 52-76-6

International status:

US: Lynoestrenol is not listed in the schedules to the US *Controlled Substances Act* and is not mentioned 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: Lynoestrenol is not specifically listed in the CDSA. The substance is used as an oral contraceptive[1] and has not been reported to display any anabolic activity. Therefore, even though lynoestrenol is a steroid, it cannot be included under Item 23 of Schedule IV under the heading "Anabolic steroids and their derivatives including:".

Recommendation: Lynoestrenol is not included under Item 23 of Schedule IV to the CDSA

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[1] M. Iqbal Choudhary, M. Atif & Atta-Ur-Rahman (2010): Oxidation of lynestrenol by the fungus *Cunninghamella elegans*. Natural Product Research: Formerly Natural Product Letters, 24:1, 1-6.

and is not considered a controlled substance.

Date: February 21st, 2012.