



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

Substance: 14-Hydroxymorphine

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):

- Under schedule I to the CDSA, there is a list of many opiates including the dihydro derivative of 14-hydroxymorphine, hydromorphenol (subitem 16)
- As a derivative of morphine, 14-hydroxymorphine is included in item 1 of Schedule I

Supporting document(s) attached: **X**

Prepared by: _____ Date: _____
SHEREEN KHAN

Verified by: See email Date: _____
MICHAEL LEBELLE

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

Drug Status Report

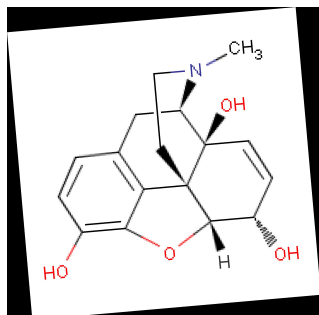
Drug: 14-Hydroxymorphine

Drug Name Status: 14-Hydroxymorphine is a common name

Chemical Name:

7,8-Didehydro-4,5- α -epoxy-17-methyl-morphinan-3,6- α ,14-triol

Chemical structure:



Molecular Formula: C₁₇H₁₉NO₄

Pharmacological class / Application: opioid

International status:

US: The drug is not included specifically in the Schedules to the CSA. It is not mentioned on the DEA website.

The term "narcotic drug" is defined in the CSA as "any of the following whether produced directly or indirectly by extraction from substances of vegetable origin, or independently by means of chemical synthesis, or by a combination of extraction and chemical synthesis:

(A) Opium, opiates, derivatives of opium and opiates, including their isomers, esters, ethers, salts, and salts of isomers, esters, and ethers, whenever the existence of such isomers, esters, ethers, and salts is possible within the specific chemical designation."

Opiate is also defined in the CSA as "any drug or other substance having an addiction-forming or addiction-sustaining liability similar to morphine or being capable of conversion into a drug having such addiction-forming or addiction-sustaining liability.

The opiates are listed on Schedules I and II to the CSA. DEA would need to

confirm whether 14-hydroxymorphine is on I or II.

United Nations: The opiates are included in Schedules I and II to the 1961 convention. The status of 14-hydroxymorphine would need to be verified with the INCB.

Canadian Status: Item 1 of Schedule I to the CDSA is “Opium poppy (*Papaver somniferum*), its preparations, derivatives, alkaloids and salts” and includes morphine and its “salts, derivatives and salts of derivatives”.

There follows a list of many opiates including the dihydro derivative of 14-hydroxymorphine, hydromorphanol (subitem 16). As a derivative of morphine, 14-hydroxymorphine is included in item 1 of Schedule I.

Recommendation: 14-Hydroxymorphine is included in Item 1 of Schedule I to the CDSA and is a controlled substance.

February 3, 2006