Substance: Spiradoline

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 is not listed in the Schedules to the CDSA and is not similar to any of the substances included in the CDSA.

Prepared by:                                               Date:  August 15, 2011

Zack Li

Verified by:                                                Date:  

Mark Kozlowski

Approved by:                                                Date:  

DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES

This status was requested by: Tanya Arcand, OCS
Drug Status Report

**Drug:** Spiradoline

**Drug Name Status:** Spiradoline is the [USAN] name.

**Chemical Name:** Benzeneacetamide, 3,4-dichloro-N-methyl-N-(7-(1-pyrrolidinyl)-1-oxaspiro(4.5)dec-8-yl)-, (5alpha,7alpha,8beta)-(+-)-,

**Other Names:** U-62066

**Chemical Structure:**

![Chemical Structure Image]

**CAS RN:** 87151-85-7

**Pharmacological class / Application:** Analgesic

**International status:**

US: Spiradoline is not currently listed on 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: Spiradoline is a kappa-opioid receptor agonist that produces antinociceptive effects in the body and is a congener of the kappa-opioid agonist U-50488\(^1\). The substance is not listed in the CDSA and is not structurally similar to any of the substances included in the Schedules to the CDSA. Although it is an opioid receptor agonist, it is not a preparation, derivative, alkaloid or salt of the Opium Poppy and therefore cannot be included under Item 1 of Schedule I to the CDSA. A similar kappa-opioid agonist U-50488 was previously reviewed and found to be not controlled under the CDSA.

**Recommendation:** Spiradoline is not included in the schedules to the CDSA and is not a controlled substance.

**Date:** August 15, 2011

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