Drug Status Report

**Drug:** Mead acid ethanolamide

**Drug Name Status:** Mead acid ethanolamide is the common name.

**Chemical Name:** $5Z,8Z,11Z$-eicosatrienoic acid

**Chemical structure:**

![Chemical structure of Mead acid ethanolamide]

**Molecular Formula:** $C_{21}H_{41}NO_2$

**Pharmacological class / Application:** Endocannabinoid

**International status:**

**US:** Mead acid ethanolamide is not listed in the Schedules to the CSA 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 drug is not listed on the Green List - List of Psychotropic Substances under International Control.

**Canadian Status:** Mead acid ethanolamide has been shown in the scientific literature to act as an agonist at the cannabinoid $CB_1$ and $CB_2$ receptors, and display a greater binding affinity for the $CB_1$ receptor$^{12}$. Cannabinoid receptor agonists have been declared to be included within item 1 of Schedule II to the CDSA by virtue of being “similar synthetic preparations.” Cannabinoid receptor antagonists, however, have been declared to fall outside item 1 of Schedule II to the CDSA. Accordingly, mead acid ethanolamide is considered to be included under item 1 of Schedule II to the CDSA.

Recommendation: Mead acid ethanolamide is included in item 1 of Schedule II to the CDSA and is a controlled substance.

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April 8th, 2010.