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

Substance: Ser 601

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):

- The substance is a synthetic cannabinoid receptor agonist and must be included under
  Item 1 of Schedule II to the CDSA.

Prepared by: ___________________________ Date: ________________
Vincent Marleau

Verified by: ___________________________ Date: ________________
Mark Kozlowski

Approved by: ___________________________ Date: ________________
DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES

This status was requested by: “third party information removed as per agreement with applicant”
Drug Status Report

Drug: Ser 601

Drug Name Status: Ser 601 is the common name.

Chemical Name: N-(Adamant-1-yl)-6-isopropyl-4-oxo-1-pentyl-1,4-dihydroquinoline-3-carboxamide

Chemical structure:

![Chemical Structure Image]

Molecular Formula: $C_{28}H_{38}N_2O_2$

Pharmacological class / Application: Synthetic cannabinoid

CAS-RN: N/A

International status:

US: Ser 601 is not listed specifically in the Schedules to the US Controlled Substances Act and is not mentioned anywhere 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: Ser 601 is not listed in the schedules to the CDSA. The substance is a synthetic cannabinoid and in recent studies using the formalin test in mice, Ser 601 has been found to induce a nocifensive response and hence acts as an agonist at the CB$_2$ cannabinoid receptor$^1$. Cannabinoid receptor agonists are considered captured under the heading “Cannabis, its preparations, derivatives and similar synthetic preparations” of item 1 in Schedule II to the CDSA, whereas cannabinoid receptor antagonists are specifically excluded. Given that Ser 601 is a cannabinoid receptor agonist, it must be included under item 1 of Schedule II to the CDSA.

---

Recommendation: Ser 601 is included under item 1 of Schedule II to the CDSA and is a controlled substance.

Date: May 28th, 2012.