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

Substance:  Aflatoxins

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 different types of aflatoxins are not similar to any of the substances included in the Schedules to the CDSA.

Prepared by:  ____________________________  Date:  February 1st, 2012
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: Aflatoxins

Drug Name Status: Aflatoxins is the toxicological family.

Aflatoxins are toxic food contaminants, found in the fungi Aspergillus, that are harmful to human health and are considered carcinogenic\(^1\). The different strains of aflatoxins consist of the following:

- Aflatoxin B\(_1\) (AFB\(_1\))
- Aflatoxin B\(_2\) (AFB\(_2\))
- Aflatoxin G\(_1\) (AFG\(_1\))
- Aflatoxin G\(_2\) (AFG\(_2\))

Name: Aflatoxin G₁

Chemical Name:
(7AR,cis)3,4,7a,10a-tetrahydro-5-methoxy-1H,12H-furo(3',2':4,5)furo(2,3-h)pyrano(3,4-c)chromene-1,12-dione

Synonyms:
1H,12H-Furo(3',2':4,5)furo(2,3-h)pyrano(3,4-c)(1)benzopyran-1,12-dione,3,4,7a,10a-tetrahydro-5-methoxy-, (7aR-cis)-; AFG₁.

Molecular Formula: C₁₇H₁₂O₇
CAS-RN: 1162-39-5

Name: Aflatoxin G₂

Chemical Name:
(7AR,cis)3,4,7a,9,10,10a-hexahydro-5-methoxy-1H,12H-furo(3',2':4,5)furo(2,3-h)pyrano(3,4-c)chromene-1,12-dione

Synonyms: Dihydroaflatoxin G1;
1H,12H-Furo(3',2':4,5)furo(2,3-h)pyrano(3,4-c)(1)benzopyran-1,12-dione,3,4,7aalpha,9,10,10aalpha-hexahydro-5-methoxy-; AFG₂.

Molecular Formula: C₁₇H₁₄O₇
CAS-RN: 7241-98-7

These substances are not structurally similar to any of those listed in the CDSA and are not considered controlled substances.

Recommendation: Aflatoxins do not contain any substances that are similar to those included in the Schedules to the CDSA and therefore are not controlled substances.

Date: January 26th, 2012.