



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

Substance: Gamma Oryzanol

Based on the current information available to the Office of Controlled Substances, it appears that the above substance is:

Controlled \Box Not Controlled \checkmark

under the schedules of the *Controlled Drugs and Substances Act* (CDSA) for the following reason(s):

• The substances are not similar to any of the substances listed in the CDSA.

Prepared by:

Evelyn Soo

Date: Aug 23th 2010

Verified by:

Marianne Tang

Approved by:

Date: _____

Date: DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES

This status was requested by: Saumea Thayalan of the Inspectorate - presence in a nutritional supplement.

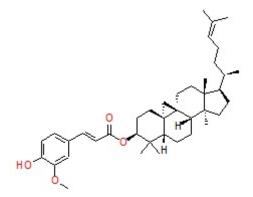
Drug Status Report

Drug: Gamma Oryzanol

Drug Name Status: Gamma Oryzanol is the common name.

Chemical Name: 9,19-Cyclo-9-beta-Ianost-24-en-3beta-ol 4-hydroxy-3-methoxycinamate

Chemical Structure:



Molecular Formula: C₄₀H₅₈O₄

Pharmacological class / Application: Phytosterol

CAS-RN: 11042-64-1

International status:

US: The substance is not listed specifically in the CSA 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 nor the Green List - List of Psychotropic Substances under International Control.

Canadian Status: Gamma oryzanol is a phytosterol ferulate mixture that is obtained from rice bran oil and has been shown in the scientific literature to have antioxidant properties¹. The substance is claimed to be an ingredient in a dietary supplement known as "Body BuilderTM", which is marketed for horses, dogs as well as humans, and available over the internet at <u>http://www.equiade.com/.</u>, but there is no evidence in the literature that gamma oryzanol displays any anabolic activity.

¹Ismail, M. *et al.* (2010) Gamma-oryzanol rich fraction regulates the expression of antioxidant and oxidative stress related genes in stressed rat's liver, Nutr. Metabolism, 7: Art No 23.

Gamma oryzanol is not listed specifically in the CDSA and is not structurally similar to any of the substances listed in the Schedules to the CDSA.

Recommendation: Gamma oryzanol is not similar to any of the substances included in the Schedules to the CDSA and is not a controlled substance.

Date: 23 August 2010