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

Substance:  
I - Deca 200 (Nandeconate™)  
II - D-Anabol 25 (Methandenesolone™)

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 substances listed as ingredients in the two above products are not similar to any of those included in the Schedules to the CDSA.

Prepared by: ________________________________  Date: Jan 19th 2011  
Evelyn Soo

Verified by: ________________________________  Date: _____________  
Marianne Tang

Approved by: ________________________________  Date: _____________  
DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES

This status was requested by: Inspectorate
Drug Status Report

**Drug:**

I - Deca 200 (Nandeconate™)
II - D-Anabol 25 (Methandesenolone™)

**Drug Name Status:**

I - Deca 200 (Nandeconate™)
II - D-Anabol 25 (Methandesenolone™) are product names.

**International status:**

US: Deca 200 (Nandeconate™) and D-Anabol 25 (Methandesenolone™) are not currently listed in the Schedules to the US *Controlled Substances Act* and are not mentioned anywhere on the DEA website.

United Nations: The substances are 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: Deca 200 (Nandeconate™) and D-Anabol 25 (Methandesenolone™) are not currently listed in the CDSA. The products are nutritional supplements marketed by Dynamic Sports Nutrition for body building purposes and are claimed to contain the following ingredients:

Deca 200 (Nandeconate™) - Beta-hydroxy-methylbutyrate; Eurycoma longifolia and Carnosine.
D-Anabol 25 (Methandesenolone™) - 2-amino-5-guanidinovaleric acid and *Rhaponticum carthamoides*.

It is noteworthy that nandeconate and methandesenolone are not proper chemical names and the identities of these substances cannot be determined. However, with regard to the listed ingredients, the status of Eurycoma Longifolia and *Rhaponticum carthamoides* have already been reviewed previously and are not considered controlled substances under the CDSA.

**Chemical Properties:**

**Beta-hydroxy-methylbutyrate**

- Common Name: Beta-hydroxy-methylbutyrate
- Chemical Name: 3-hydroxy-3-methylbutyric acid
- Other Names: Beta-hydroxyisovaleric acid
- CAS-RN: 625-08-1
- Molecular Formula: C₉H₁₄NO₃

**Carnosine**

- Common Name: Carnosine
- Chemical Name: N-beta-alamyl-L-histidine
- CAS-RN: 305-84-0
- Molecular Formula: C₉H₁₄N₄O₃
Beta-hydroxy-methylbutyrate, more commonly known as 3-hydroxyisovaleric acid, is a naturally-occurring human metabolite found in urine and a biomarker for biotin status\(^1\). Carnosine is a dipeptide found in animal tissues and has been shown to display antioxidant activity\(^2\), while 2-amino-5-guanidinovaleric acid is a naturally-occurring amino acid more commonly known as DL-arginine. Beta-hydroxy-methylbutyrate, carnosine and 2-amino-5-guanidinovaleric acid are not currently listed in the Schedules to the CDSA and do not display any structural similarity to those included in the Schedules to the CDSA.

**Recommendation:** Beta-hydroxy-methylbutyrate, carnosine and 2-amino-5-guanidinovaleric acid are not included in the schedules to the CDSA and are not a controlled substances.

**Date:** 19 January 2011

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