



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

Substance: Tribenoside

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):

- Tribenoside is an active substance of Glyvenol and used in the treatment of osteoathrosis and varicose veins. It is not similar to any of the substances in the CDSA.

Prepared by: \_\_\_\_\_ Date: October 13th 2010  
Evelyn C Soo

Verified by: \_\_\_\_\_ Date: \_\_\_\_\_  
Marianne Tang

Approved by: \_\_\_\_\_ Date: \_\_\_\_\_  
DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES

**This status was requested by:** Quebec Inspectorate

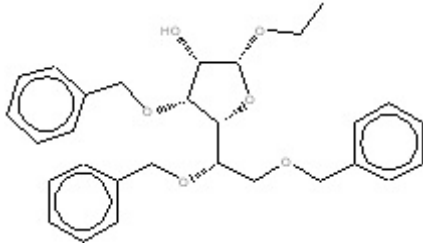
# Drug Status Report

**Drug:** Tribenoside

**Drug Name Status:** Tribenoside is the proper (INN) name.

**Chemical Name:** Ethyl 3,5,6-tris-O-(phenylmethyl)-D-glucofuranoside

**Chemical Structure:**



**Molecular Formula:** C<sub>29</sub>H<sub>34</sub>O<sub>6</sub>

**CAS-RN:** 10310-32-4

**Pharmacological class / Application:** Anti-inflammatory; anti-arthrotic

**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, 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:** The substance is the active substance of Glyvenol and is reported in the literature to display a range of pharmacological activities including anti-inflammatory, mild analgesic, antitoxic, wound-healing, fibrinolysis- promoting, anti-arthrotic, amine-release-inhibitory, membrane-stabilizing and venotropic properties<sup>1</sup>. Tribenoside has been reported to be useful in the treatment of osteoarthritis and varicose veins<sup>2</sup> and is not similar to any of the substances in the CDSA.

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<sup>1</sup>Jaques, R. (1977) The pharmacological activity of tribenoside, *Pharmacology*, **15**:445-460.

<sup>2</sup>Kalbhen, DA. *et al.* (1983) Histological investigations of the antiarthrotic effect of tribenoside (Glyvenol) in experimental osteoarthritis, *J. Rheumatol.* **10**:267-281.

**Recommendation:** Tribenoside is not included in the Schedules to the CDSA is not a controlled substance.

**Date:** October 13<sup>th</sup> 2010