Drug Status Report

**Drug**: Potassium orotate

**Drug Name Status**: Potassium orotate is the common name

**Chemical Name**: 1,2,3,6-tetrahydro-2,6-dioxo-4-pyrimidinecarboxylic acid, , monopotassium salt

**Other Names**: Potassium 1,2,3,6-tetrahydro-2,6-dioxopyrimidine-4-carboxylate; Kalii orotas

**Chemical structure**:

![Chemical structure of Potassium orotate]

**Molecular Formula**: C$_5$H$_3$N$_2$O$_4$K

**Pharmacological class / Application**: Growth promoter; anxiolytic; antidepressant

**International status**:

US: The substance is not listed on the schedules to the CSA and is not mentioned on the DEA website.

United Nations: The substance is not listed on the Yellow List - List of Narcotic Drugs under International Control. The drug is not listed on the Green List - List of Psychotropic Substances under International Control.

Canadian Status: Potassium orotate has been claimed in the literature to have anabolic
activity\textsuperscript{1,2,3} and display both anxiolytic\textsuperscript{4} and antidepressant\textsuperscript{5} effects. Potassium orotate is not specifically listed on the CDSA and is not similar to any substances listed in the Schedules to the CDSA. While potassium orotate is claimed to be anabolic, it is not a steroid or a derivative or a steroid and therefore cannot be included under Item 23 of Schedule IV “Anabolic steroids and their derivatives including”.

Recommendation: Potassium orotate is not included in the schedules to the CDSA and is not considered a controlled substance.

December 15\textsuperscript{th}, 2009.

\textsuperscript{1}http://lekarstwo.ru/en/preparati/kalii_orotas.html


\textsuperscript{3}Wing, JM. (1958) Effect of potassium orotate and methionine alone and with various antibacterial agents in a high colostrum diet for young calves. J. Dairy Sci. 14:1290-1291.
