

Drug Status Report

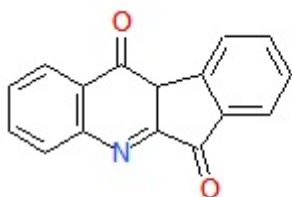
Drug: Ban Lan Gen

Drug Name Status: Ban Lan Gen is the common name.

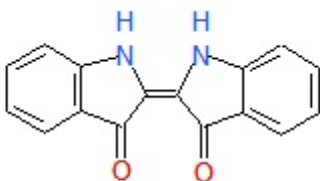
Other Names: *Folium Isatidis*, *Isatis indigotica* root

Ban Lan Gen is a herbal supplement that is used in traditional Chinese medicine (TCM) and is also known as *Folium Isatidis*.

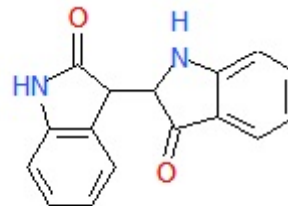
Ban Lan Gen is also known as Radix is the root of *Isatidis indigotica* is used in TCM for the clearing away of heat and detoxification in the treatment of fever, sore throat, influenza, measles and hepatitis¹. Ban Lan Gen has been shown in animal studies to produce antipyretic, antinociceptive and anti-inflammatory effects² and over 50 substances have been reported to be present in Ban Lan Gen including organic acids, sucrose, glycosides and alkaloids such as tryptanthrin, indigo and indirubin³ which are not structurally similar to any of the substances listed in the Schedules to the CDSA.



Tryptanthrin



Indigo



Indirubin

Canadian Status: Ban Lan Gen does not contain any substances similar to those listed on the schedules to the CDSA.

Recommendation: Ban Lan Gen is not a controlled substance.

January 12th 2010.

¹<http://www.tcm-treatment.com/herbs/0-daqingye-banlangen.htm>

²Ho, Y-L. and Chang, Y-S. Studies on the antinociceptive, anti-inflammatory and antipyretic effects of *Isatis indigotica* root, *Phytotherapies*. **9**:419-424.

³Liau, B-C. et al. (2007) LC-APCI/MS method for detection and analysis of tryptanthrin, indigo, and indirubin in Daqingye and Banlangen, *J. Pharm. Biomed. Anal.* **43**:346-351.