

## Drug Status Report

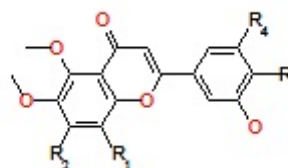
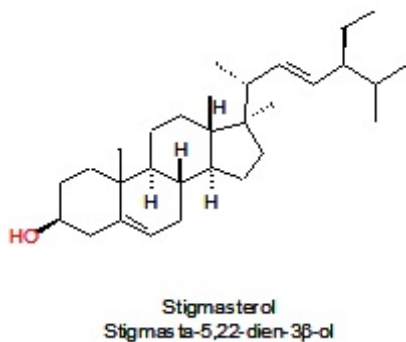
**Drug:** Huo Xiang Zheng

**Drug Name Status:** Huo Xiang Zheng is the brand name.

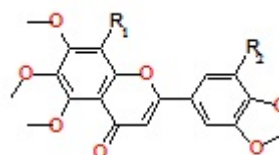
Huo Xiang Zheng is a herbal supplement that is used in traditional Chinese medicine (TCM) and is claimed to consist of primarily of *Ageratum*.

*Ageratum* is a plant genus which consists of more than 40 different species of plants. *A. conzyoides* is the most common *Ageratum* plant used in folk and traditional medicine in Africa, South America and some parts of Asia for treatment of a variety of diseases, ranging from headaches and infectious diseases, to wound healing, to skin diseases<sup>1</sup>. In traditional Chinese medicine, Huo Xiang Zheng is mainly used to treat cold symptoms<sup>2</sup>.

A wide variety of bioactive compounds have been reported in *A. conzyoides* and have been shown to produce anti-inflammatory, analgesic and antioxidant activities<sup>3,4</sup>. For example, sterols such as stigmasterol have been reported in the literature to produce anti-inflammatory effects<sup>1</sup> while a methanolic extract of *A. conzyoides* consisted of flavanoids that produced anti-inflammatory and antioxidant effects<sup>1,3,4</sup>.



5-methoxynobiletin: R<sub>1</sub>=R<sub>2</sub>=R<sub>3</sub>=R<sub>4</sub>=OMe  
5,6,7,3',4',5'-hexamethoxyflavone: R<sub>1</sub>=H; R<sub>2</sub>=R<sub>3</sub>=R<sub>4</sub>=OMe



Linderoflavone B: R<sub>1</sub>=H; R<sub>2</sub>=OMe  
Eupalestin: R<sub>1</sub>=R<sub>2</sub>=OMe

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<sup>1</sup>Okunade, AL. (2002) *Ageratum conzyoides* L. (Asteraceae). *Fitoterapia*, 73:1-16.

<sup>2</sup>[http://www.china.org.cn/environment/health\\_green\\_living/2009-01/04/content\\_17052652.htm](http://www.china.org.cn/environment/health_green_living/2009-01/04/content_17052652.htm).

<sup>3</sup>Magalhasei, JFG. *et al* (1997) Analgesic and antiinflammatory effects of *Ageratum conzyoides* in rats. *Phytotherapy Res.* 11:183-188.

<sup>4</sup>Galati, EM. (2001) Anti-inflammatory and antioxidant activity of *Ageratum conzyoides*, *Pharm. Biol.* 39:336-339.

Canadian Status: Huo Xiang Zheng does not contain any substances similar to those listed on the schedules to the CDSA.

Recommendation: Huo Xiang Zheng is not considered a controlled substance under the CDSA.

January 13<sup>th</sup> 2010.