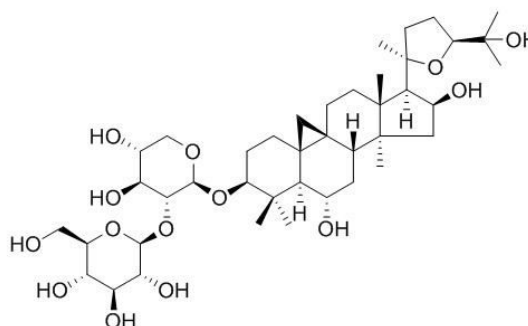


# Astragaloside III Datasheet

4<sup>th</sup> Edition (Revised in July, 2016)

## [ Product Information ]

**Name:** Astragaloside III**Catalog No.:** CFN99174**Cas No.:** 84687-42-3**Purity:** > 98%**M.F:** C<sub>41</sub>H<sub>68</sub>O<sub>14</sub>**M.W:** 784.97**Physical Description:** White cryst.**Synonyms:** b-D-Xylopyranoside, (3b,6a,16b,20R,24S)-20,24-epoxy-6,16,25-trihydroxy-9,19-cyclolanostan-3-yl 2-O-b-D-glucopyranosyl.

## [ Intended Use ]

1. Reference standards;
2. Pharmacological research;
3. Food research;
4. Cosmetic research;
5. Synthetic precursor compounds;
6. Intermediates & Fine Chemicals;
7. Ingredient in supplements, beverages;
8. Others.

## [ Source ]

The root of *Astragalus membranaceus* (Fisch.) Bunge.

### **[ Biological Activity or Inhibitors ]**

Astragaloside III can effectively reduce cancer cell survival in vitro and inhibit the tumor growth in vivo, the potential mechanism is the induction of cell apoptosis signaling pathways, suggests that it provides a new therapeutic tool to treat breast cancer.<sup>[1]</sup>

Astragaloside III, ononin and astragaloside IV have anti-gastric ulcer effects, also exhibit strong growth-promoting effects in cultured GES-1 cells.<sup>[2]</sup>

### **[ Solvent ]**

Pyridine, Methanol, Ethanol, Hot water, etc.

### **[ HPLC Method ]<sup>[3]</sup>**

HPLC-ELSD:

Mobile phase: Acetonitrile- H<sub>2</sub>O=36:64 ;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

Drift tube temperature: 90 °C

Pressure of gas : 0.15 MPa.

### **[ Storage ]**

2-8°C, Protected from air and light, refrigerate or freeze.

### **[ References ]**

[1] Wang S, Tang L, Chen F. *Afr. J. Tradit. Complem.*, 2015, 12(3):183-6.

[2] Liu X H, Zhao L G, Liang J, *et al. J. Chromatogr. B* , 2014, 960(6):43-51.

[3] Wang H, Wang Q. *J. Chinese Pharm. Sci.*, 2002, 37(4):298-300.

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