

## Hyoscyamine Datasheet

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

### [ Product Information ]

**Name:** Hyoscyamine

**Catalog No.:** CFN00232

**Cas No.:** 101-31-5

**Purity:** > 98%

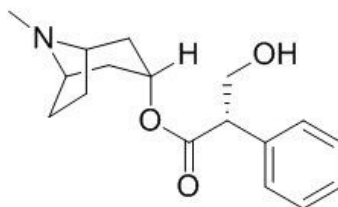
**M.F:** C<sub>17</sub>H<sub>23</sub>NO<sub>3</sub>

**M.W:** 289.37

**Physical Description:** Powder

**Synonyms:** (-)-Hyoscyamin;(S)-(-)-Hyoscyamine;1-Hyoscyamine;

alpha-(Hydroxymethyl)-benzeneaceticaci8-methyl-8-azabicyclo(3.2.1)oct-3-y.



### [ Intended Use ]

1. Reference standards;
2. Pharmacological research;
3. Synthetic precursor compounds;
4. Intermediates & Fine Chemicals;
5. Others.

### [ Source ]

The roots of *Anisodus tanguticus*.

### [ Biological Activity or Inhibitors ]

Hyoscyamine could be used to reduce abdominal discomfort and colonic spasm during a barium enema.<sup>[1]</sup>

Hyoscyamine and scopolamine are widely used in medicine due to their anticholinergic activity.<sup>[2]</sup>

## **[ Solvent ]**

Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

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

Mobile phase: Methanol-Acetonitrile-Water[the water phase was composed of 1.5 M H<sub>3</sub>PO<sub>4</sub> (adjust pH to 3.0 ± 0.1 with triethylamine)-0.2 M KH<sub>2</sub>PO<sub>4</sub> (adjust pH to 2.5 ± 0.1 with phosphoric acid)-0.15% sodium laurylsulfate(2.5:22.5:75)]=3:27:70;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 208 nm.

## **[ Storage ]**

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

## **[ References ]**

[1] Bova J G, Jurdi R A, Bennett W F. *Am. J.Roentgenol.*, 1993, 161(5):965-8.

[2] Cardillo A B, Talou J R, Giulietti A M. *Microb. Cell Fact.*, 2008, 7(1):134-9.

[3] Su M, Yin J, Yuan Z. *Chinese Journal of Pharmaceutical Analysis*, 2007, 27(12):1969-70.

## **[ Contact ]**

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