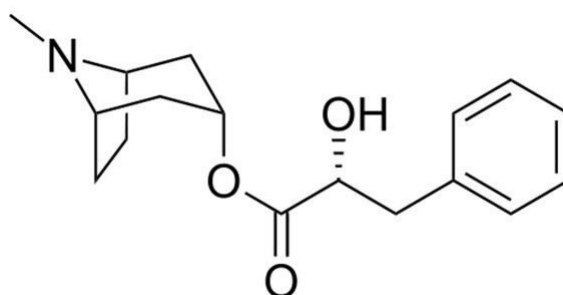


## Littorine Datasheet

4<sup>th</sup> Edition (Revised in July, 2016)**[ Product Information ]****Name:** Littorine**Catalog No.:** CFN00200**Cas No.:** 21956-47-8**Purity:** > 98%**M.F:** C<sub>17</sub>H<sub>23</sub>NO<sub>3</sub>**M.W:** 289.37**Physical Description:** Powder

**Synonyms:** 1aH,5aH-Tropan-3a-ol, 3-phenyl-L-lactate (ester) (8Cl); Benzenepropanoic acid, α-hydroxy-, 8-methyl-8-azabicyclo[3.2.1]oct-3-yl ester, [3(R)-endo]-;(R)-(-)-Littorine; R(-)-3a-(2-Hydroxy-3-phenylpropionyloxy)-tropane.

**[ Intended Use ]**

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

**[ Source ]**The herbs of *Datura sanguinea*.

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

Littorine is not converted directly to the alkaloid, and it is suggested that it is hydrolysed in vivo to tropine and phenyl-lactic acid, the latter undergoing rearrangement to tropic acid prior to esterification with tropine.<sup>[1]</sup>

There are short-term toxic effects of 1-naphthol on the digestive gland-gonad complex of the marine prosobranch *Littorina littorea*.<sup>[2]</sup>

## **[ Solvent ]**

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

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

Mobile phase: Acetonitrile-10mM SDS(pH3.3,adjusted with 1%H<sub>3</sub>PO<sub>4</sub>)=2:3;

Flow rate: 1.1 ml/min;

Column temperature: 40°C;

The wave length of determination: 215 nm.

## **[ Storage ]**

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

## **[ References ]**

[1] Leete E, Kirven E P. *Phytochemistry*, 1974, 13(8):1501-4.

[2] Cajaraville M P, Marigómez J A, Angulo E. *Arch. Environ. Con. Tox.*, 1990, 19(1):17-24.

[3] Sauerwein M, Wink M, Shimomura K. *J. Plant. Physiol.*, 1992, 140(2):147-52.

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