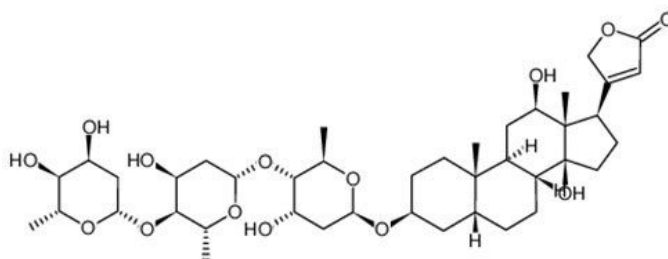


Digoxin Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Digoxin**Catalog No.:** CFN98536**Cas No.:** 20830-75-5**Purity:** > 98%**M.F:** C₄₁H₆₄O₁₄**M.W:** 780.94**Physical Description:** Powder

Synonyms: (3beta,5beta,12beta)-3-[[[2,6-dideoxy-beta-D-ribo-hexopyranosyl-(1->4)-2,6-dideoxy-beta-D-ribo-hexopyranosyl-(1->4)-2,6-dideoxy-beta-D-ribo-hexopyranosyl]oxy]-12,14-dihydroxycard-20(22)-enolide; 12β-Hydroxydigitoxin.

[Intended Use]

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

[Source]

The herbs of *Digitalis lanata*.

[Biological Activity or Inhibitors]

Digoxin is a cardiac glycoside, it does not reduce overall mortality, but it reduces the rate of hospitalization both overall and for worsening heart failure, these findings define more precisely the role of digoxin in the management of chronic heart failure.^[1]

Digoxin and other cardiac glycosides can inhibit hypoxia-inducible factor 1 (HIF-1) α synthesis and block tumor growth.^[2]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method]^[3]

Mobile phase: Acetonitrile-H₂O=28:72 ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 218 nm.

[Storage]

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

[References]

[1] Group D I. *New England Journal of Medicine*, 1997, 336(8):525-33.

[2] Zhang H, Qian D Z, Tan Y S, *et al. P. National Acad.Sci. U. S. A.*, 2008, 105(50):19579-86.

[3] Jedlicka A, Grafnetterová T, Miller V. *J. Pharm. Biomed. Anal.*, 2003, 33(1):109-15.

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