

Allantoin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Allantoin

Catalog No.: CFN97557

Cas No.: 97-59-6

Purity: >=99%

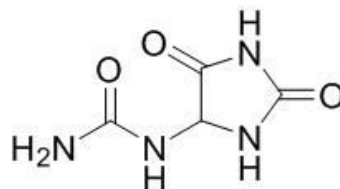
M.F: C₄H₆N₄O₃

M.W: 158.11

Physical Description: Powder

Synonyms: Alantan; 5-Ureidohydantoin; (2,5-dioxo-4-imidazolidinyl)-urea;

(2,5-Dioxo-4-Imidazo-Lidiny)Urea; 1-(2,5-dioxoimidazolidin-4-yl)urea; 1-[(4R)-2,5-dioxoimidazolidin-4-yl]urea; Allegron; Alphosyl; Alyonyldiurened; Cordianine; Egopsoryl; Sebical; Allantoinum.



[Intended Use]

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

[Source]

The roots of *Phytolacca acinosa*.

[Biological Activity or Inhibitors]

Uric acid acts as an antioxidant and is capable to react with biologically relevant oxidants to form allantoin, allantoin is a possible indicator of free radical damage in vivo. [1]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method]^[2]

Mobile phase: Methanol- H₂O with 5 mM sodium laurylsulfate added at pH 2.5, adjusted with 85% orthophosphoric acid, pH of water phase was finally adjusted at 6.0 by addition of triethylamine=20:80;

Flow rate: 1.0 ml/min;

Column temperature: 40 °C;

The wave length of determination: 235 nm.

[Storage]

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

[References]

[1] Kand'Ár R, Žáková P, Mužáková V. *Clin. Chim. Acta*, 2006, 365(1–2):249-56.

[2] Maksimović Z, Malenović A, Jancić B, *et al. Die Pharmazie*, 2004, 59(7):524-7.

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