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CERTIFICATE OF ANALYSIS

Skin Care Raw Material Allantoin Powder CAS 97-59-6

Allantoin is a chemical compound with formula C₄H₆N₄O₃. It is also called 5-ureidohydantoin or glyoxyldiureide.[1][2] It is a diureide of glyoxylic acid.

Named after the allantoin (an amniote embryonic excretory organ in which it concentrates during development in most mammals except humans and higher apes), it is a product of oxidation of uric acid by purine catabolism. After birth, it is the predominant means by which nitrogenous waste is excreted in the urine of these animals. In humans and higher apes, the metabolic pathway for conversion of uric acid to allantoin is not present, so the former is excreted. Recombinant rasburicase is sometimes used as a drug to catalyze this metabolic conversion in patients. In fish, allantoin is broken down further (into ammonia) before excretion. Allantoin is a major metabolic intermediate in many other organisms including plants and bacteria.

Specification

Item	Specifications	Results
Appearance	White powder	Conform
Assay	98.5~101.50%	99.2%
Melting point	>225°C	226.8°C
Loss on drying	≤0.1%	0.05%
Burnt residue	≤10	Conform
PH Value	4.5~6.0	5.5
Conclusion	The results conforms with USP34 standards	