

QUALITY SPECIFICATION

Allantoin

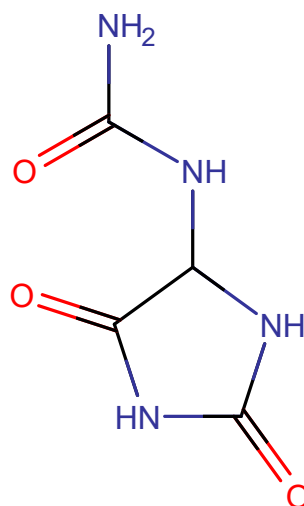
Catalog No.: NST-12-56

CAS No.: 97-59-6

Molecular formula: $C_4H_6N_4O_3$

MW: 158.12

Shelf life: 24 months



No.	Parameter	Specification	Method
1.	Appearance	Powder	Visual
2.	Color	White	Visual
3.	Identification	Conforms	TLC&NMR
4.	Assay	98.5 % - 101.0 %	Titration
5.	Residue on ignition	≤0.1 %	USP <281>
6.	Loss on drying	≤0.1 %	USP <731>
7.	Acidity or alkalinity	A yellow color observed. The solution turns red upon the addition of 0.4 mL of 0.01 M sodium hydrochloric acid	USP
8.	Reducing substances	Remain violet for at least 10 min	USP
9.	Related substances	<0.5 %	USP
10.	Heavy Metals	≤10 ppm	ICP-MS
11.	Lead	≤2 ppm	ICP-MS

12.	Arsenic	≤ 1 ppm	ICP-MS
13.	Mercury	≤ 0.1 ppm	ICP-MS
14.	Cadmium	≤ 1 ppm	ICP-MS
15.	TPC	$<10^3$ CFU/g	USP <2021>
16.	TYMC	$<10^2$ CFU/g	USP <2021>
17.	<i>Escherichia Coli</i>	Absent	USP <2022>
18.	<i>Salmonella</i>	Absent	USP <2022>
19.	<i>Staphylococcus aureus</i>	Absent	USP <2022>

Storage: store in a cool and dry place, keep away from strong light and heat

Stability: 24 months when properly stored