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SPECIFICATION

ALLANTOIN

Item	Specification
Characters	A white or almost white powder, slightly soluble in water, very slightly soluble in alcohol. It melts at about 225 °C, with decomposition.
Identification	IR: The IR spectrum of the sample should be similar to the infrared spectrum of the standard (characteristic bands). TLC: The RF value of the main spot in the sample solution corresponds to that of the main spot in the standard solution.
Assay	98.5-101.0%
Residue on ignition	<0.1%
Related substances	Conform
SOLUBILITY	Slightly soluble in water, very slightly soluble in ethanol
Acidity or alkalinity	To 5 mL of solution S add 5 mL of carbon dioxide-free water R,c 0.1 mL of methyl red solution R and 0.2 mL of 0.01 M sodium hydroxide. The solution is yellow. Add 0.4 mL of 0.01 M hydrochloric acid . The solution is red.
Loss on drying	<0.1%
Reducing substances	Shake 1.0 g with 10 mL of water R for 2 min. Filter. Add 1.5 mL of 0.02 M potassium permanganate. The solution must remain violet for at least 10 min.
ORGANIC IMPURITIES	Not more than 0.5%
Heavy Metal	<10PPM
Total Aerobic Microbial	<2000 cfu/g
Total Combined Yeast And Mold	<200 cfu/g
Staphylococcus aureus	Absent
Pseudomonas aeruginosa	Absent
Conclusion	Meet the standard of BP2024 and USP44