Macsen Laboratories

Manufacturer of Fine Chemicals & Pharmaceuticals

Name of product : Allopurinol IP

CAS No. : 315-30-0

Molecular weight : 136.11 g/mol

SR.NO	CRITERIA	SPECIFICATION
1.	**APPEARANCE**	A white or almost white powder, crystalline powder
2.	**SOLUBILITY**	Very slightly soluble in water and in ethanol (96 per cent). It dissolves in dilute solutions of alkali hydroxides
3.	**IDENTIFICATION**	
	Test – A **IR**	The infrared spectrum of test sample should match with working standard / reference standard
	Test - B **UV-Vis Spectrophotometry**	Absorbance maximum 250 nm Absorbance minimum 231 nm Absorbance ratio A_{231}/A_{250} = 0.52 to 0.62
	Test – C	A flocculent yellow precipitate is produced.
	Test – D	A grey-blue colour solution is produced
4.	**Appearance of solution**	A 5.0 per cent w/v solution in 2 M sodium hydroxide is clear, (2.4.1) and not more intensely coloured than reference solution YS6 orGYS4
5.	**Related substances**	**Name** / **Acceptance Criteria, NMT (%)** Allopurinol Impurity A – 0.2 Allopurinol Impurity B – 0.1 Allopurinol Impurity C – 0.1 Unspecified Impurity – 0.1 Sum of impurities other than A, B and C – 0.3
6.	**Heavy metals**	NMT 20 ppm
7.	**Sulphated Ash**	NMT 0.1%
8.	**Loss on Drying**	NMT 0.5%

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9.	**Assay (on dried basis)**	NLT 98.0% and NMT 101.0%

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