Macsen Laboratories
Manufacturer of Fine Chemicals & Pharmaceuticals

SPECIFICATION SHEET

Name of product : Allopurinol USP

CAS No. : 315-30-0

Molecular weight : 136.11 g/mol

SR.NO	CRITERIA	SPECIFICATION
1.	**APPEARANCE**	Fluffy white to off-white powder, having only a slight odor.
2.	**SOLUBILITY**	Soluble in solutions of potassium and sodium hydroxides; very slightly soluble in water and in alcohol; practically insoluble in chloroform and in ether.
3.	**IDENTIFICATION**	
	IR	The infrared spectrum of test sample should match with working standard / reference standard
4.	**LOSS ON DRYING**	NMT 0.50%
5.	**ASSAY BY HPLC (On dried basis)**	NLT 98.00% to NMT 102.00%
6.	**ORAGNIC IMPURITIES BY HPLC**	See nested table below
7.	**Limit of Hydrazine**	**NMT 10 ppm**

Name	Relative Retention Time	Acceptance Criteria, NMT (%)
Allopurinol related compound A	**0.62**	**0.2**
Allopurinol related compound B	0.79	0.2
Allopurinol related compound C	0.81	0.2
Allopurinol related compound D	4.4	0.2
Allopurinol related compound E	4.8	0.2
Ethyl-(E/Z)-3-(2-carbethoxy-2-cyanoethenyl) amino-1H-pyrazole4-carboxylate	6.5	0.2
Unspecified Impurity	---	0.1
Total Impurity	---	1.0

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