

ASES CHEMICAL WORKS

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CERTIFICATE OF ANALYSIS

1. Name of the Product	ALLANTOIN
2. INCI Name	5-Ureidohydantoin / Glyoxylic(acid) diureide
3. Molecular Formula	C ₄ H ₆ N ₄ O ₃
4. Molecular Weight	158.12 g/mol
5. CAS Number	97-59-6
6. Date of Exp.	As mentioned on Label

IDENTITY/TEST	SPECIFICATION	RESULT
Composition	5 - ureidohydantoin	
Appearance	White, odourless crystalline powder	Conforms
Purity (potentiometric)	98.0 – 101.0%	99.49
Melting Point	224 – 232°C	228
Moisture Content	0.1% max	Conforms
pH (0.5% solution) @ 25°C	4.0 – 6.0	4.4
Sulphated Ash	0.1% max	Conforms
Heavy Metals (as Pb)	15 ppm max	Conforms
Iron	10 ppm max	Conforms
Arsenic	2 ppm max	Conforms
Bulk Density	0.7 kg / m ³	Conforms
Solubility	Fully miscible with water & ethanol	Conforms
Microbiological purity	< 10 CFU / g. (aerobes & anaerobes) pathogens absent	<10