

CERTIFICATE OF ANALYSIS

Product:	Zeatin(Zeatin mixed isomers)
Catalog Number :	13114-27-7
Molecular Formula :	C₁₀H₁₃N₅O
Molecular Weight:	219.24
Lot No.:	320139
Expiry Date:	11/2021
Storage:	-5-0°C (short term), -20°C (long term), desiccated
Description:	Zeatin mixed isomers , Approx 80% trans; balance primarily cis, Promote the growth of lateral bud and stimulate cell differentiation. Promote the germination of callus and seeds, also can prevent the leaf senescence. A high concentration of zeatin can induce the differentiation of adventitious bud.

TESTS	SPECIFICATIONS		RESULTS	UNITS	REMARKS
Appearance :	Off-white to yellow powder		complies		practically odourless
Identification(HNMR) :	Conform to the reference spectrum		complies		
Residue on ignition :	NMT:0.1		0.06	%	
Loss on drying :	NMT:0.5		0.28	%	80°C , 2h vacuum
Melting point :	207-214		213	°C	
Unknown Total Impurities:	NMT:5.0		0.54	%	HPLC, 268nm
Mixture of isomers:	Trans isomers	80-98	96.91	%	HPLC,268nm
	Cis isomers	2-15	2.55		
Purity of the Zeatin mixed isomers	NLT:95		99.46		

NMT: Not more than; NLT: Not less than; MT: More than; LT: Less than

Conclusion: approved

Quality Inspector