

CERTIFICATE OF ANALYSIS

Chemical Name:	Avermectin
Cas No.:	71751-41-2
MF:	C ₄₉ H ₇₄ O ₁₄
MW:	887.11
Batch No.:	2021061901
Manufacturing Date:	Jun. 19th, 2021
Retest Date:	Jun. 18th, 2023
Quantity:	500.610KG

Items	Standard	Result
Appearance	White to yellowish-white crystalline powder	White crystalline powder
Identification	The retention times of test solution correspond to those of standard solution HPLC	Conform
Heavy metals (%)	≤0.001	<0.001
Residue on ignition (%)	≤0.1	0.07
Loss on drying (%)	≤2.0	1.8
External standard(%)		
Avermectin B1	N92.0	97.7
Avermectin B1a	≥85.0	94.2
Normalization(%)		
Avermectin B1	≥95.0	98.8
Avermectin B1a	≥90.0	96.0
Normalization(%)		
Avermectin B2a	≤1.0	0.07
MonosaccharideAV B1a	≤1.0	ND
12-demethyl -12 ethyl AV B1a	≤1.0	0.26
Avermectin A1a	≤1.0	0.12
Total impurity	≤5.0	1.2
Insolubles in propylene glycol	Conform	Conform
Conclusion	Complies with standards	

Quality Control Manager: Liu Si

Checker: Hu Kai

Approved: Shao Jin