



Certificate of analysis

Productname: Moxidectin

Cas number: 113507-06-5

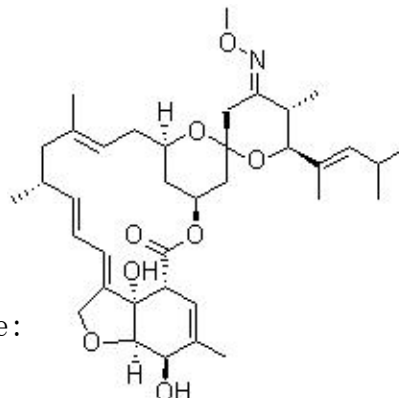
Molecular Formula: C₃₇H₅₃NO₈

Molecular Weight: 639.82

Date of production: July. 22, 2020

Batch No: 20200722

Exp Date: July. 21, 2022



Chemical structure:

Items	Specifications	Results
Appearance	White to pale yellow powder	White powder
solubility	Practically insoluble in water, very soluble in ethanol, slightly soluble in hexane	Conforms
Identification A(IR)	IR spectrum corresponds to the IR spectrum of the reference standard	Conforms
Appearance of solution(EP Method)	Solution is clear, Colour ≤ GY5	Conforms
Water	Not more than 1.3%	0.65%
Heavy Metal	Not more than 20 ppm	Conforms
Sulfated sah	Not more than 0.2%	0.02%
Relates Substances	Test method A: Impurity A Not more than 1.5% Impurity B Not more than 0.5% Impurity C Not more than 1.5% Impurity D Not more than 2.5% Sum of impurities E and F Not more than 1.7% Impurity G Not more than 1.5% Any other impurity eluting before Impurity G Not more than 0.5% Test method B: Sum of impurities H and I Not more than 1.0% Impurity J Not more than 0.5% Impurity K Not more than 0.5% Any other impurity eluting after Impurity G Not more than 0.5%	0.78% 0.24% 0.71% 1.09% 1.14% 0.06% 0.11% 0.06% 0.02% 0.03% 0.01%
Total of all impurities(Calculate the sum of the impurities eluting from the start of the run to impurity G in test A and from impurities H+I to the end of the run in test B) Not more than 7.0%		4.42%
Assay	92.0% ~102.0% (calculated on the anhydrous basis)	97.9%

Residual solvents	Methanol Not more than 0.3%	Not detected
	Ethanol Not more than 0.5%	Not detected
	Dichloromethane Not more than 0.06%	Not detected
	Dimethyl sulfoxide Not more than 0.5%	Not detected
	1,4-Dioxane Not more than 0.038%	Not detected
	N-Heptane Not more than 0.5%	Not detected

Conclusion: It complies with the EP7.0 Standard.

Analyst:Zhao

Checker:Liu

Q.C Director. Fang F