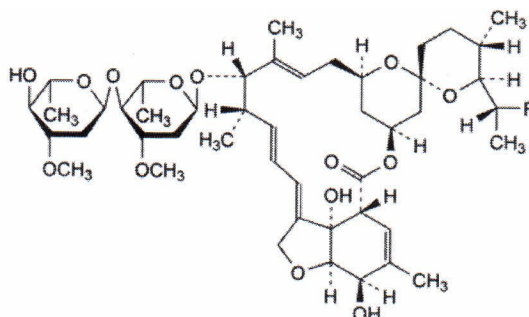


Ivermectin EP10

Batch no 20240116
 Mf date Jan 16 2024
 Expiry date Jan 2027

Molecular Structure



Molecular Formula H_2B_{1a} $C_{48}H_{74}O_{14}$
 H_2B_{1b} $C_{47}H_{72}O_{14}$
 Molecular Weight H_2B_{1a} 875
 H_2B_{1b} 861
 CAS Registry Number Ivermectin B1a 71827-03-7
 Ivermectin B1b 70209-81-3

Feb 20 2024

Tests	Specifications	Results
Appearance	White or yellowish-white crystalline powder	White crystalline powder
Solubility	Practically insoluble in water, freely soluble in methylene chloride, soluble in alcohol	Conforms
Identification	IR, HPLC	Positive
Appearance of solution	Solution is clear \leq BY ₇	Conforms
Specific optical rotation (anhydrous and solvent-free substance)	$-17 \sim -20^\circ$	-18.8°
Related substances	Impurities (RRT 1.3 ~ 1.5) \leq 2.5% Any other individual impurities \leq 1.0%	2.11% 0.49, 0.38, 0.05 0.12, 0.31, 0.08
	Disregard limit \leq 0.05%	0.05%
	Total impurities \leq 5.0%	3.32%
Ethanol	\leq 5.0%	2.65%
Formamide	\leq 3.0%	2.3%
Water	\leq 1.0%	0.13%
Sulfated ash	\leq 0.1%	0.05%
Assay (odb) HPLC	$H_2B_{1a}/(H_2B_{1a} + H_2B_{1b})$ Ratio by area \geq 90.0% $H_2B_{1a} + H_2B_{1b}$ 95.0 ~ 102.0%	97.36% 96.05%

Packaging and storage	In an airtight container
Conclusion	Material complies with EP10