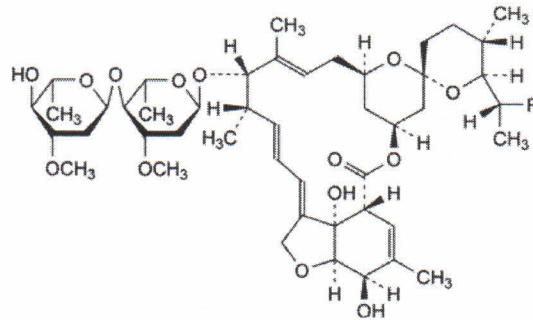




Batch no 20240712  
Mf date Jul 12 2024  
Expiry date Jul 11 2027

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

Jul 30 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)	$-17 \sim -20^\circ$	$-18.8^\circ$
Related substances	Impurities (RRT 1.3 ~ 1.5) $\leq 2.5\%$	2.15%
	Any other individual impurities $\leq 1.0\%$	0.55, 0.44, 0.03 0.06, 0.15, 0.07
	Disregard limit $\leq 0.05\%$	0.05%
	Total impurities $\leq 5.0\%$	3.46%
Ethanol	$\leq 5.0\%$	2.14%
Formamide	$\leq 3.0\%$	2.01%
Water	$\leq 1.0\%$	0.12%
Sulfated ash	$\leq 0.1\%$	0.05%
Assay (odb) HPLC	$H_2B_{1a}/(H_2B_{1a} + H_2B_{1b})$ Ratio by area $\geq 90.0\%$	97.25%
	$H_2B_{1a} + H_2B_{1b}$ 95.0 ~ 102.0%	96.12%

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