



Specification

Ivermectin USP

Catalog Number: IV1001
Lot Number: 0814503
CAS Number: 70288-86-7
Synonym(s): 22,23-Dihydroivermectin B1, MK-933
Molecular Formula: C₄₈H₇₄O₁₄ (B1a); C₄₇H₇₂O₁₄ (B1b)
Molecular Weight: 875.10
Storage: 2°C – 8°C
Retest Period: Three years from the date of manufacture

Test	Specification
Appearance	White crystalline powder
Assay	B1a ≥ 90.0% (B1a+B1b) ≥ 95.0%
Identification IR HPLC	To match standard Retention times of B1a& B1b peaks conform to standard
Specific Rotation	-17° to -20°
Moisture	≤ 1.0%
Residue on Ignition	≤ 0.1%
Heavy Metals	≤ 20 ppm
Limit of Alcohol	≤ 5.0%
Limit of Formamide	≤ 3.0%
Related substances	
Sum of impurities at RRT 1.3 – 1.4	≤ 2.5%
Impurities at RRT 0.7 (8a-oxo-B1a)	≤ 1.0%
Impurities at RRT 0.5 (Avermectin B1a)	≤ 0.7%
Largest individual of all other impurities	≤ 0.5%
Total unidentified impurities	≤ 1.0%
Total areas besides the two main peaks	≤ 4.0%

Approved:

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