



# DALIAN HANDOM CHEMICALS CO.,LTD.

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## Certificate of Analysis

**Product Name:** Ivermectin

**Molecular Formula:** C<sub>48</sub>H<sub>74</sub>O<sub>14</sub>

**Batch No.:** HDC20231114

**Manufacturing Date:** Nov 14<sup>th</sup>, 2023

**Retest Date:** Nov 13<sup>th</sup>, 2025

**CAS No.:** 70288-86-7

**Molecular Weight:** 875.09

**Batch Quantity:** 200.00kg

**Analysis Date:** Nov 15<sup>th</sup>, 2023

**Reference Standard:** EP11.0

Test Items		Specifications	Test Results
Appearance		White or yellowish-crystalline powder	Conforms
Identification	IR	Corresponds with that of CRS Standard	Conforms
	HPLC	The retention time for H <sub>2</sub> B <sub>1a</sub> corresponds with that of CRS standard	Conforms
Water		Not more than 1.0%	0.3%
Appearance of solution		Clear and not more intensely colored than BY <sub>7</sub>	Clear
Assay (on the anhydrous basis)		95.0% ~ 102.0%	96.0%
H <sub>2</sub> B <sub>1a</sub> /(H <sub>2</sub> B <sub>1a</sub> + H <sub>2</sub> B <sub>1b</sub> )		Not less than 90.0%	99.7%
Related Substances	Individual impurities(RRT1.3-1.5)	Not more than 2.5%	2.0%
	Any other individual impurities	Not more than 1%	0.69%, 0.19%, 0.26% 0.13%, 0.56%, 0.19%
	Total impurities	Not more than 5.0%	4.2%
	Disregard limit	Not more than 0.05%	0.05%
Ethanol		Not more than 5.0%	3.9%
Formamide		Not more than 3.0%	2.6%
Heavy Metals		Not more than 0.002%	<0.001%
Sulphated ash		Not more than 0.1%	0.05%
Specific optical rotation (on the anhydrous and solvent-free basis)		-17° ~ -20°	-18.2°

**Conclusion:** The testing results of this batch are complied with the Standard of EP11.0.

**Storage Conditions:** Preserved in unopened original containers in a cool dry place before using; kept away from direct sunlight, heat and moisture.