

N DE LOTE:

0030823

CERTIFICATE OF ANALYSIS

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Product	: Permethrin EP	COA No.	: 0672/23
Batch No.	: 234043007	Report No.	: FP-224/23
Mfg. Date	: May.2023	Mfg. Lic. No.	: KD-324
Exp. Date	: Apr.2027	Dispatch Qty	: 25 Kg

TEST	OBSERVATION	LIMITS
Description	Slightly brownish viscous liquid, semi solid.	Colorless or slightly brownish viscous liquid, semi solid or crystalline solid.
Solubility	Practically insoluble in Water, very soluble in Heptane, freely soluble in anhydrous Ethanol, sparingly soluble in Ethylene glycol.	Practically insoluble in Water, very soluble in Heptane, freely soluble in anhydrous Ethanol, sparingly soluble in Ethylene glycol.
Identification	A) By IR IR Spectrum of the sample is comparable with IR Spectrum of Permethrin CRS.	A) By IR IR Spectrum comparable with that in "IR Spectrum of Permethrin (25:75) WS standard."
	B) By HPLC The 2 principal peak in the chromatogram obtained with the test solution are similar in retention time and in cis/trans ratio to the 2 principal peaks in the chromatogram obtained with the reference solution. (cis/trans ratio = about 0.30)	B) By HPLC The 2 principal peaks in the chromatogram obtained with the test solution are similar in retention time and in cis/trans ratio to the 2 principal peaks in the chromatogram obtained with the reference solution. (cis/trans ratio = about 0.3)
Related Substances	Impurity B: 0.01% Impurity C: 0.03% Other unspecified impurity: NMT 0.06% Total impurities: NMT 0.12%	Impurity B: NMT 0.15% Impurity C: NMT 0.15% Other unspecified impurity: NMT 0.10% Total impurity: NMT 0.5 %
Water	0.13%	Not More Than 0.25%
Sulphated Ash	0.04%	Not More Than 0.1%
Assay By HPLC (On anhydrous substance)	98.3%	98.0% to 102.0% C ₂₁ H ₂₀ Cl ₂ O ₃
Cis Isomer	23.34%	23.0% to 27.0%
Trans Isomer	76.67%	73.0% to 77.0%
Residual Solvents	IPA : 72.28 ppm Toluene : 35.32 ppm DMF : 31.50 ppm *Benzene : 0.01 ppm	IPA : NMT 5000ppm Toluene : NMT 890ppm DMF : NMT 880 ppm *Benzene : NMT 2 ppm

Note: - Before sampling stir well & warm up to 70°C Permethrin solidifies below 35°C. In case of solidification please warm up to 70 to 75°C to get liquid (Before use). This does not affect the quality

Remark: Passes as per EP Specification.

Prepared By/Date:-

[Signature]
Jul 11, 2023

Mr. Milind Keshav (QA Executive)

Approved By/Date :-

[Signature]
Jul 11, 2023

Mr. Sachin Shenvaikar (Manager QA)

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Annexure No.: SQA/066/A01-00

SOP No.: SQA/O/066

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