

METAPHARMACEUTICAL

N DE LOTE:

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11/05/2022



®

Factory: Plot No.17/24,17/22,17/23,17/13
M.I.D.C Taloja-410 208, Taluka Panvel.
Dist. Raigad (Maharashtra) India.
Tel.:+91-22-2740 2408, 2741 0459.
Fax: +91-22-2740 2631.
E-mail :info@srikem.com,despatch@srikem.com

Website: www.srikem.com

Product : Permethrin (Pharma Grade) 99%
Batch No. : 215046013
Mfg. Date : Dec.2021
Exp. Date : Nov.2026

COA No. : 0209/22
Report No. : FP-014/22
Mfg. Lic. No. : KD-324
Dispatch Qty. : 350 Kg

CERTIFICATE OF ANALYSIS

TEST	OBSERVATION	LIMIT
Characters (Description & Solubility)	Yellow brownish colour liquid which solidify on standing at lower temperature. Soluble in Alcohol (96 % W/V), Acetone, Ether & Hydrocarbons (Toluene).	Yellow brownish colour liquid which may solidify on standing or at lower temperature. Soluble in Alcohol (96 % W/V) Acetone, Ether & Hydrocarbons (Toluene).
Identification Infrared Absorption	A) By IR IR Spectrum exhibits maxima which are only at the same wave number as those in Reference spectrum of Permethrin Reference Standard.	A) By IR IR Spectrum exhibits maxima which are only at the same wave number as those in "Reference Spectrum of Permethrin- Reference Standard".
	B) By HPLC Retention time of Permethrin test sample matches with retention time of Permethrin standard in the assay test.	B) By HPLC Retention time of Permethrin test sample matches with retention time of Permethrin standard in the assay test.
Loss On Drying	0.23 %	Not more than 2.0 %
Related Substance By HPLC	Meta Phenoxy Benzyl Alcohol: 0.04% Meta Phenoxy Benzaldehyde: 0.01% DV Acid Ester (Cis+Trans): 0.07% Unknown Impurity: 0.16% Total Impurity: 1.21 %	NMT 0.15 % NMT 0.15 % NMT 0.15 % NMT 0.30 % NMT 2.0 %
Sulphated Ash	0.05 %	Not more than 0.2 %
Assay by HPLC (on dried basis)	99.0%	98.0% to 101.0%
Cis Isomer	25.48%	23.0% to 27.0%
Residual Solvents	Toluene: 75.81 ppm *Benzene: 0.06 ppm	Not More Than 890 ppm Not More Than 2 ppm

Note: - Before sampling stir well & warm up to 40°C Permethrin solidifies below 35°C. In case of
solidification please warm up to 40 to 45°C to get liquid (Before use). This does not affect the quality.

Remarks : Passes As Per Specification

*Benzene is not used in process, but tested due to the use of Toluene.

Prepared By/Date:-

Mar 01, 2022

Mrs. Jayashri Pansare (QA Chemist)

Approved By/Date:-

Mar 01, 2022

Mr. Uday Vetal (QA/RA Asst. Manager)

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