

Product Data Sheet

D-Phenothrin

Storage: Please store the product under the recommended conditions in the Certificate of

Analysis.

Anti-infection

BIOLOGICAL ACTIVITY

D-Phenothrin ((-)-trans-Phenothrin), an orally active Type II synthetic pyrethroid, is widely used to kill insects, mosquitoes, and human lice. D-Phenothrin is also used in veterinary medicine to control insect pests on animals and protect agricultural crops^[1].

In Vivo

Pathway:

D-Phenothrin ((-)-trans-Phenothrin; 25-200 mg/kg; IP; 14 consecutive days) significantly, dose-dependently increases oxidative DNA damage in both organs of animals $^{[1]}$.

D-Phenothrin (100, 300 or 1000 mg/kg/day; p.o.; 3 days) exhibits no potential to cause adverse estrogenic or (anti-)androgenic effects^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Male Wistar albino rats (6-week-old, 150-200 g)
Dosage:	25, 50, 100, 200 mg/kg
Administration:	IP; 14 consecutive days
Result:	Had a statistically significant, dose-dependent increase in oxidative DNA damage in both organs of animals.

REFERENCES

[1]. Atmaca E, et al. d-Phenothrin-induced oxidative DNA damage in rat liver and kidney determined by HPLC-ECD/DAD. Environ Toxicol. 2015 May;30(5):607-13.

[2]. Yamada T, et al. Lack of estrogenic or (anti-)androgenic effects of d-phenothrin in the uterotrophic and Hershberger assays. Toxicology. 2003 Apr 22;186(3):227-39.

 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$

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Page 2 of 1 www.MedChemExpress.com