

Dimethicone

Cat. No.:	HY-W250580
CAS No.:	9006-65-9
Target:	Biochemical Assay Reagents
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

Dimethicone

BIOLOGICAL ACTIVITY

Description	Dimethicone is an orally active biochemical assay reagents consisting of a fully methylated linear siloxane polymer whose ends are blocked by trimethylsiloxane units. Dimethicone can lubricate hair and physically block the respiratory system of lice to remove lice. Dimethicone has potential applications in cosmetics and daily cleaning products ^{[1][2][3]} .
In Vivo	Dimethicone (25% dissolved in petroleum ether; Respiratory administration; single dose) shows biosafety in Wistar rats ^[3] . Dimethicone (1%, 5% or 10% in the diet; p.o.; 90 d) shows biosafety in Sprague-Dawley rats ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Nair B, et al. Final report on the safety assessment of stearoxy dimethicone, dimethicone, methicone, amino bispropyl dimethicone, aminopropyl dimethicone, amodimethicone, amodimethicone hydroxystearate, behenoxy dimethicone, C24-28 alkyl methicone, C30-45 alkyl methicone, C30-45 alkyl dimethicone, cetearyl methicone, cetyl dimethicone, dimethoxysilyl ethylenediaminopropyl dimethicone, hexyl methicone, hydroxypropyldimethicone, stearamidopropyl dimethicone, stearyl dimethicone, stearyl methicone, and vinyl dimethicone. Int J Toxicol. 2003;22 Suppl 2:11-35.
- [2]. Ihde ES, et al. Safety and efficacy of a 100% dimethicone pediculocide in school-age children. BMC Pediatr. 2015 Jun 20;15:70.
- [3]. Shank P D, et al. Safety Assessment of Dimethicone, Methicone, and Substituted-Methicone Polymers, as Used in Cosmetics[J]. 2020.

Caution: Product has not been fully validated for medical applications. For research use only.

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