

# Ion Gel ZCM-25® Shows Significant Antiviral Efficacy Against Dengue Virus

PUERTO VALLARTA, JALISCO, MEXICO, June 27, 2024 /EINPresswire.com/ -- Ion Biotechnology México, S.A. de C.V. is pleased to announce the latest test results of Ion Gel ZCM-25®, a topical antimicrobial gel, in combating the [Dengue Virus Type 2](#) strain (ATCC VR-1584). This study, conducted following the Mexican Standard NMX-BB-040-SCFI-1999 for germicidal product evaluation, highlights the product's significant antiviral efficacy.

The quantitative assay involved applying a specified inoculum concentration of Dengue Virus Type 2 to 100 grams of Ion Gel ZCM-25®. The antiviral efficacy was measured by calculating the percentage reduction in viral load, expressed in Colony Forming Units per milliliter (CFU/mL), at two key time intervals: 10 minutes and 24 hours post-application.

## Key Findings:

**Rapid Action:** Ion Gel ZCM-25® achieved a 99.999% reduction in Dengue Virus Type 2 load within the first 10 minutes of application.

**Sustained Efficacy:** This substantial reduction in viral load was maintained throughout the 24-hour study period.

These results demonstrate the potent and sustained antiviral properties of Ion Gel ZCM-25®, making it a promising topical agent for managing infections caused by Dengue Virus Type 2. The study underscores the product's ability to provide rapid and long-lasting protection, a critical factor in the fight against viral infections.

## [High Bioavailability](#) Confirmed by Recent Study:

A preclinical study completed in November 2023 by Dr. José Trinidad Pérez Urizar, Ph.D., a professor in the Biomedical Sciences Department of the University of San Luis Potosí, highlighted the high bioavailability of Ion Gel ZCM-25®. The study, conducted on rabbits, showed that after topical application, the Magnesium (Mg+2), Zinc (Zn+2), and Copper (Cu+2) cations present in Ion Gel ZCM-25® exhibited significant systemic absorption within the first hour.

## Extensive Research Validates Antimicrobial Efficacy:

Thirty-six comprehensive [antimicrobial studies](#) back Ion Gel ZCM-25® and explore its various action modes. These studies confirm the gel's broad-spectrum efficacy against different pathogens, including bacteria, viruses, and fungi. The research demonstrates multiple mechanisms by which Ion Gel ZCM-25® combats infections, such as disrupting microbial cell

membranes, inhibiting biofilm formation, and reducing oxidative stress. This extensive evidence highlights Ion Gel ZCM-25® as a versatile and potent antimicrobial agent suitable for diverse clinical applications.

#### Demonstrated Antiviral Activity Against SARS-CoV-2:

In addition to its efficacy against Dengue Virus Type 2, Ion Gel ZCM-25® has shown remarkable antiviral activity against SARS-CoV-2 (Equine Viral Arteritis) in a study by M. en C. Israel Velázquez Martínez in 2020 at the Laboratory of Immunological Specialties, Ion Gel ZCM-25® was proven to eliminate more than 99.9999% of SARS-CoV-2 viral particles after 10 minutes of contact. This finding supports the gel's potent virucidal properties, making it an effective tool in the fight against COVID-19 and related viral threats.

#### About Ion Gel ZCM-25®:

Ion Gel ZCM-25® is a 25% concentration of ION-ZCM1 in a topical semi-solid form, designed to prevent infections and promote wound healing. The product leverages IBAL Technology (Ion Biotechnology Aqueous Ligands), featuring a unique coordination complex of ligands in a redox solution of hexaaqua ions containing zinc, copper, magnesium, sulfur, and hydrogen. Its broad-spectrum antimicrobial properties are effective against viruses, bacteria, and fungi, making it a versatile tool in infection control.

#### About Ion Biotechnology México, S.A. de C.V.

Ion Biotechnology México, S.A. de C.V. is committed to advancing healthcare through innovative biotechnology solutions. Our mission is to develop and provide high-quality medical products that enhance patient outcomes and improve overall health standards. Ion Gel ZCM-25® represents a significant advancement in topical antimicrobial therapy, offering a safe and effective option for preventing and managing infections.

For more information about Ion Gel ZCM-25® and our latest research findings, please visit our website at <https://zcm25.com/>

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