

# Revolutionary Ion Gel ZCM-25® Proves Effective Against Tough Pathogens *Acinetobacter baumannii* and *Candida auris*

*Ion Gel ZCM-25®, an antimicrobial and antifungal gel, effectively combats *Acinetobacter baumannii* and *Candida auris* without resistance.*

PUERTO VALLARTA, JALISCO, MEXICO, April 3, 2024 /EINPresswire.com/ -- In a groundbreaking development in the fight against resistant infections, recent studies have showcased the potent antimicrobial and antifungal capabilities of [Ion Gel ZCM-25®](#), a novel topical gel, against two of the most formidable pathogens in healthcare settings: [Acinetobacter baumannii](#) and [Candida auris](#).

## Background on the Pathogens

*Acinetobacter baumannii* and *Candida auris* are notorious for their role in healthcare-associated infections, with the former being a bacterial culprit in various infections, including bloodstream infections, and the latter a fungal pathogen that has emerged as a significant global health threat due to its resistance to multiple antifungal drugs.

## *Acinetobacter baumannii*

This bacterium is increasingly recognized for its role in various nosocomial infections, including but not limited to pneumonia, bloodstream infections, urinary tract infections, and wound infections. Its ability to survive on surfaces for extended periods makes it a formidable contaminant in healthcare settings. The grave concern around *A. baumannii* stems from its rapid evolution of resistance to a broad spectrum of antibiotics, including those considered last-resort treatments for multidrug-resistant infections. This resistance complicates treatment strategies and elevates the mortality rates associated with its infections, particularly in intensive care units where patients are more vulnerable. The bacterium's genetic adaptability and capability to form biofilms enhance its persistence and resistance, underscoring the urgency for novel antimicrobial solutions.

## *Candida auris*

Emerging as a significant global health threat, *Candida auris* is a multidrug-resistant yeast that has been causing outbreaks in healthcare facilities across the globe. Unlike other *Candida*

species, *C. auris* is noted for its ability to rapidly develop resistance to multiple antifungal drugs, making infections difficult to treat and control. It can cause severe and potentially fatal infections, including bloodstream, wound, and ear infections, and has a notable capacity for spreading in hospital environments, leading to outbreaks. The pathogen poses a particular risk to immunocompromised patients, including those in intensive care units, with high morbidity and mortality rates reported. The challenge with *C. auris* lies in its resistance to conventional antifungal therapies and its ability to persist on surfaces and skin, facilitating its spread and making environmental decontamination efforts critical in controlling its transmission.

The emergence of these pathogens as significant contributors to HAIs underscores the need for enhanced infection control measures, including the development of novel antimicrobial and antifungal agents capable of effectively combating these resistant organisms. Additionally, the global health community must prioritize research into alternative treatment strategies and strengthen surveillance systems to monitor and respond to outbreaks promptly. The fight against *Acinetobacter baumannii* and *Candida auris* is emblematic of the broader battle against antimicrobial resistance, highlighting the importance of concerted efforts across healthcare systems to protect public health.

## Research Highlights

The effectiveness of Ion Gel ZCM-25<sup>®</sup> was evaluated through meticulous studies adhering to the Mexican Standard NMX-BB-040-SCFI-1999, a benchmark for germicidal product evaluation. These studies demonstrated the gel's exceptional ability to reduce the presence of *Acinetobacter baumannii* by up to 93.5% and *Candida auris* by 92.3% in just 10 minutes, marking a significant achievement in the ongoing battle against these dangerous pathogens.

## Implications for Healthcare

The success of Ion Gel ZCM-25<sup>®</sup> against these pathogens represents a major advancement in infection control measures. With its ability to combat resistant strains without contributing to the development of resistance, Ion Gel ZCM-25<sup>®</sup> emerges as a promising solution to a growing global health crisis.

## A Step Forward in Antimicrobial Resistance (AMR) and Infection Control

This innovation is a testament to the importance of developing new strategies to tackle AMR and Multi-Drug Resistant Organisms (MDRO). Ion Gel ZCM-25<sup>®</sup> not only offers a new weapon against difficult-to-treat infections but highlights the potential for topical treatments to play a crucial role in preventing the spread of infections in healthcare settings.

## About Ion Gel ZCM-25<sup>®</sup>

Ion Gel ZCM-25<sup>®</sup> is a cutting-edge antimicrobial and antifungal topical gel, free from antibiotics

and steroids, developed to meet the urgent need for effective treatments against pathogens like *Acinetobacter baumannii* and *Candida auris*. Its unique formula ensures efficacy without fostering resistance, making it a significant addition to healthcare protocols.

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