

India Gentamycin Market By Source (In-house v/s Contract Manufacturing Organizations), By Form (Eye Drops, Tablet, Capsule, Syrup, Injection, Cream, Gel, Ointment, Others), By Route of Administration (Ophthalmic, Intravenous, Topical, Oral, Others), By Distribution Channel (Online v/s Offline), By Application (Bacterial Infection, Urinary Tract Infection, Sepsis, Meningitis, Skin or Soft Tissue Infection, Upper Respiratory Tract Infection, Others), By Region, Competition, Forecast & Opportunities, 2021-2031F

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Abstracts

India Gentamycin Market was valued at USD 68.32 Million in 2025 and is expected to reach USD 97.87 Million by 2031, growing with a CAGR of 6.31% in the forecast period.

The Gentamycin market in India has witnessed steady growth in recent years, driven by increasing demand for effective antibiotics to treat a broad range of bacterial infections. Gentamycin, an aminoglycoside antibiotic, is widely used in hospitals and clinics across India for treating severe infections such as sepsis, respiratory tract infections, urinary tract infections, and intra-abdominal infections. Its effectiveness against Gram-negative bacteria makes it a critical option in the treatment of drug-resistant infections. India's large and growing population, combined with a high burden of infectious diseases, contributes significantly to the demand for gentamycin. The government's focus on improving healthcare infrastructure, particularly in rural and underserved areas, has further increased the consumption of essential antibiotics, including gentamycin. Public

healthcare procurement programs and inclusion of gentamycin in the essential medicines list have supported its widespread use in the public sector.

Key Market Drivers

High Burden of Bacterial Infections

India faces a high burden of bacterial infections, significantly driving demand for antibiotics like Gentamycin . These infections range from urinary tract infections and pneumonia to sepsis and surgical site infections, commonly occurring in both community and hospital settings. The overuse and misuse of antibiotics have contributed to increased resistance, making potent antibiotics such as Gentamycin critical in managing severe Gram-negative bacterial infections.

One of the key areas of concern is hospital-acquired infections (HAIs), which remain a major public health challenge in India. According to recent estimates, the incidence of HAIs in Indian hospitals ranges between 11% and 60%, far higher than in developed countries. These infections are often caused by drug-resistant pathogens, for which aminoglycosides like Gentamycin are among the few remaining effective treatments.

In addition, India reported over 1.6 million deaths attributable to antimicrobial resistance (AMR) in 2019, one of the highest figures globally. This underscores the urgent need for antibiotics that can address multidrug-resistant infections—an area where Gentamycin continues to play a vital role due to its efficacy against resistant strains.

Given the rising incidence of infections and AMR-related complications, Gentamycin remains a cornerstone in empirical and targeted antibiotic regimens in both public and private healthcare systems. The drug's widespread clinical utility, low cost, and proven efficacy make it indispensable in managing the infectious disease burden, especially in settings with limited access to advanced therapies. As healthcare access improves and surveillance expands, the demand for Gentamycin is expected to remain strong.

Key Market Challenges

Toxicity Concerns

Toxicity concerns remain one of the major challenges limiting the wider use of Gentamycin in the Indian pharmaceutical market. Gentamycin, while effective against a broad range of Gram-negative bacterial infections, is associated with significant side

effects, particularly nephrotoxicity (kidney damage) and ototoxicity (hearing loss), especially with prolonged or high-dose treatment.

Clinical data suggests that up to 30% of patients receiving Gentamycin may experience some level of kidney impairment. This risk is higher in vulnerable populations such as the elderly, newborns, and patients with pre-existing renal conditions. As a result, healthcare providers often monitor renal function closely when administering Gentamycin, which can increase the complexity and cost of care.

In terms of hearing loss, studies indicate that 6% to 25% of patients treated with Gentamycin may develop irreversible ototoxic effects, depending on the dosage, duration, and individual susceptibility. This makes physicians cautious, especially when safer alternatives are available.

Due to these concerns, medical guidelines recommend using Gentamycin only when strictly necessary and often in controlled, hospital-based settings where monitoring is possible. This limits its use in outpatient care and rural health programs, where monitoring infrastructure may be inadequate.

These toxicity risks also restrict Gentamycin appeal in the pediatric population, where the long-term consequences of hearing loss or kidney damage can be more profound. As a result, the growth of the Gentamycin market in India is somewhat constrained, despite its affordability and antimicrobial effectiveness. These toxicity issues necessitate careful prescribing practices and have contributed to growing interest in newer, safer alternatives.

Key Market Trends

Shift Toward Combination Therapies

The shift toward combination therapies is a growing trend in the Gentamycin market in India, driven by the need to enhance treatment efficacy and address rising antimicrobial resistance. Gentamycin is often used alongside beta-lactam antibiotics like ampicillin or ceftriaxone to provide broader-spectrum coverage, especially in hospital settings and for critical infections such as sepsis, neonatal infections, and intra-abdominal infections.

Studies indicate that around 65% of Gentamycin prescriptions in tertiary care hospitals in India involve combination therapy rather than monotherapy. This approach helps target both Gram-negative and Gram-positive bacteria, improving treatment outcomes

and reducing the risk of resistance. Combination therapies are particularly effective in early-stage empirical treatment when the causative organism is unknown, offering coverage against multiple potential pathogens.

In neonatal intensive care units (NICUs), Gentamycin is often paired with ampicillin as a first-line treatment for suspected sepsis. National data shows that this dual therapy accounts for nearly 80% of initial antibiotic regimens used in public-sector NICUs. The rationale is to ensure rapid action against a wide array of bacteria, as delays in appropriate therapy can lead to high morbidity and mortality.

The trend also extends to post-operative care, where infections are more likely to involve resistant or mixed organisms. By using Gentamycin in combination, physicians can lower the individual dose of each antibiotic, reducing the risk of toxicity while maintaining efficacy.

This shift reflects a growing awareness of precision in antibiotic use and the importance of synergistic effects in combating increasingly complex bacterial infections across India's healthcare system.

Key Market Players

Taj Pharmaceuticals Ltd

Bayer India Ltd.

Zydus Cadila Healthcare Ltd.

Neon Laboratories Ltd.

Hetero Healthcare Ltd.

Gracure Pharmaceuticals Ltd.

Intas Pharmaceuticals Ltd.

Alembic Pharmaceuticals Ltd.

Fresenius Kabi India Pvt. Ltd.

Nestor Pharmaceuticals Ltd.

Report Scope:

In this report, the India Gentamycin Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

India Gentamycin Market, By Source:

In-house

Contract Manufacturing Organizations

India Gentamycin Market, By Form:

Eye Drops

Tablet

Capsule

Syrup

Injection

Cream

Gel

Ointment

Others

India Gentamycin Market, By Route of Administration:

Ophthalmic

Intravenous

Topical

Oral

Others

India Gentamycin Market, By Distribution Channel:

Online

Offline

India Gentamycin Market, By Application:

Bacterial Infection

Urinary Tract Infection

Sepsis

Meningitis

Skin or Soft Tissue Infection

Upper Respiratory Tract Infection

Others

India Gentamycin Market, By Region:

North India

East India

West India

South India

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the India Gentamycin Market.

Available Customizations:

India Gentamycin Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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