# The Antimicrobial Resistance (AMR) Genotyping Panels Market is projected to reach a value of $2.46 Billion by 2029

*The Business Research Company's Antimicrobial Resistance (AMR) Genotyping Panels Global Market Report 2025 – Market Size, Trends, And Forecast 2025-2034*

The Business Research Company

LONDON, GREATER LONDON, UNITED KINGDOM, December 11, 2025 /EINPresswire.com/ -- The antimicrobial resistance (AMR) genotyping panels market has experienced significant growth recently, driven by advancements in healthcare diagnostics and a growing awareness of antibiotic resistance challenges. This sector is poised for further expansion as technology evolves and healthcare systems worldwide emphasize better detection and management of resistant infections. Let's explore the current market landscape, the key growth factors, regional trends, and future outlook in this critical field.

Market Size and Growth Trajectory of the Antimicrobial Resistance Genotyping Panels Market
The antimicrobial resistance genotyping panels market is expanding rapidly and is projected to increase from $1.26 billion in 2024 to $1.45 billion in 2025, reflecting a swift compound annual growth rate (CAGR) of 14.6%. This impressive growth during the historical period can be linked to the development of diagnostic infrastructure, the rising incidence of infectious diseases, increased misuse and overuse of antibiotics, higher healthcare spending, and a growing awareness of antimicrobial resistance issues.

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Looking ahead, the market is expected to maintain strong momentum, reaching $2.46 billion by 2029 at a CAGR of 14.2%. This anticipated growth is driven by the rising demand for genotyping panels, collaborative efforts among public health organizations, robust healthcare frameworks, increasing awareness about AMR, and ongoing improvements in diagnostic capabilities. Key trends shaping the market include the adoption of advanced genotyping technologies, integration of molecular diagnostics, next-generation sequencing (NGS), high-throughput PCR

platforms, and innovations in cloud-based analytics.

Understanding Antimicrobial Resistance Genotyping Panels
AMR genotyping panels are sophisticated molecular diagnostic tools that detect and analyze resistance genes in bacteria and other pathogens. These panels allow for the concurrent identification of multiple resistance markers, enabling quicker and more precise detection of drug-resistant strains. Their application supports clinicians in selecting targeted antimicrobial therapies, which is crucial in combating the spread of resistant infections.

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The Rising Impact of Antimicrobial-Resistant Infections on Market Growth
One of the main drivers of the antimicrobial resistance genotyping panels market is the increasing prevalence of infections caused by antimicrobial-resistant microorganisms. These infections, caused by bacteria, viruses, fungi, or parasites that no longer respond to standard treatments, present significant challenges for healthcare providers. The overuse and misuse of antibiotics have accelerated the development of resistant strains, thereby boosting the demand for genotyping panels that can rapidly identify resistance genes and enable more effective treatment decisions.

To illustrate, the Centers for Disease Control and Prevention (CDC) reports that over 2.8 million antimicrobial-resistant infections occur annually in the United States alone. This alarming statistic highlights the urgent need for precise diagnostic tools, reinforcing why the AMR genotyping panels market is expected to grow substantially in the coming years.

Regional Dynamics of the Antimicrobial Resistance Genotyping Panels Market
In 2024, North America held the largest share of the antimicrobial resistance genotyping panels market, reflecting the region's advanced healthcare infrastructure and strong investment in diagnostics. Meanwhile, the Asia-Pacific region is anticipated to be the fastest-growing market during the forecast period, driven by expanding healthcare access, rising disease burden, and increasing government initiatives to combat AMR.

The market analysis also covers key regions including Western Europe, Eastern Europe, South America, the Middle East, and Africa, providing a comprehensive overview of global trends and regional variations.

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