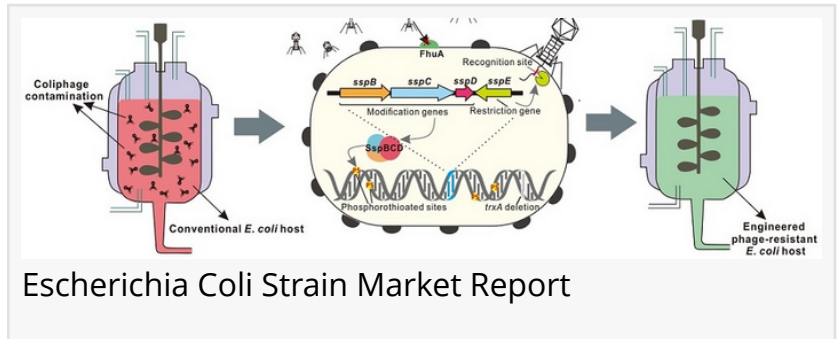


Escherichia Coli Strain Market Projected Significant Growth at a 6.9% CAGR Through 2031: Takara Bio Inc, Sanofi, Merck

BURLINGAME, CALIFORNIA, UNITED STATES, May 22, 2024
/EINPresswire.com/ -- Market Overview:

Escherichia coli (*E. coli*) are rod-shaped, gram-negative bacteria that normally live in the intestines of humans and warm-blooded animals. However, some strains of *E. coli* are pathogenic and cause various intestinal infections. *E. coli* strain identification is crucial for the food diagnostics industry for testing food samples to ensure food safety.



Market Dynamics:

The demand for *E. coli* testing is driven by the rising number of foodborne illness outbreaks globally. According to the WHO, foodborne diseases caused by *E. coli* and other pathogenic bacteria claim around 2 million lives each year. Food safety testing has become imperative to ensure the quality of food products. Stringent food safety regulations mandate testing for the absence of *E. coli* in various food categories such as dairy products, meat, vegetables, and fruit juices. Furthermore, growing demand for packaged and branded food products prone to microbial contamination is also fueling the need for regular testing using *E. coli* identification kits and reagents. Diagnostic methods incorporating *E. coli* strain characterization help identify the source of contamination and take corrective actions. Advances in molecular diagnostic technologies enabling rapid, accurate, and automated *E. coli* testing are further supporting the market growth.

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[Escherichia Coli Strain Market Drivers](#)

The Growing Focus on Food Safety and Quality is Driving Demand for *E. coli* Strains

With increasing globalization of food supply chains and rising health awareness among consumers, food quality and safety have become vital areas of focus for food producers and regulators. E. coli strains are commonly used for testing the microbiological safety and quality of a wide range of food products. As food companies invest more resources in implementing stringent food safety management systems and testing protocols, the demand for E. coli testing strains is increasing considerably.

Market Restrain

Compliance with Stringent Regulatory Standards Raises Production Costs

Manufacturers of E. coli strains need to comply with stringent safety and quality regulations imposed by authorities such as the FDA and EMA. Producing GM strains also requires complying with biosafety regulations for containment and transportation. This regulatory compliance involves substantial costs for quality certification, extensive testing, dedicated facilities, and staff training. The compliance burden raises production costs, making E. coli strains more expensive compared to alternatives. This cost factor acts as a key restraint for wider market adoption, especially in price-sensitive areas.

Some of the Top Players in Escherichia Coli Strain Market:

Thermo Fisher Scientific Inc., Merck KGaA, Novozymes A/S, QIAGEN N.V., Promega Corporation, Agilent Technologies, Inc., New England Biolabs, Inc., Takara Bio Inc., Bio-Rad Laboratories, Inc., GenScript Biotech Corporation, Sanofi, and Xiamen Innovax Biotech Co., Ltd

Market Segmentation:

By Strain Type: Commensal strains, Diarrheal strains, Extraintestinal pathogenic strains, Uropathogenic strains, Neonatal meningitis strains, and Others

By Application: Diagnostics, Research, Therapeutics, Production of recombinant proteins, Quality control organisms, and Others

By Pathogenicity: Pathogenic E. coli and Non-pathogenic E. coli

By End User: Research Institutes, Diagnostic Laboratories, Pharmaceutical & Biotechnology Companies, Contract Research Organizations, and Others

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Escherichia Coli Strain Market Opportunity

Expansion into Developing Markets with Improving Research Infrastructure

While developed countries dominate current demand, developing economies represent major opportunities for future growth. Countries such as China, India, Brazil, and several Asian and African nations are witnessing substantial increases in their research spending. They are boosting infrastructure for biotechnology and life sciences. This expanding research base in developing regions creates significant untapped opportunities for E. coli strain suppliers to expand and establish local production/distribution networks. Offering custom solutions tailored to local research needs can help companies capitalize on this growth vertical.

Key Escherichia Coli Strain Market Trend

Increasing Development of Synthetic Genetic Parts and Standardized Toolboxes

Advanced genome editing now allows developing standardized genetic parts and devices that can be combined like biological legos. Researchers are creating standardized genetic components and modular toolboxes to program E. coli for various functions. These synthetic genomic tools will make it convenient for biomanufacturers and labs to design custom strains for diverse applications. The trend of developing pre-assembled and interchangeable genetic parts is accelerated E. coli engineering and driving the next stage of market evolution. It will facilitate mass-customization and broader commercialization of engineered probiotic strains over the coming decade.

Reasons to Purchase this Report:

- Regional report analysis highlighting the consumption of products/services in a region also shows the factors that influence the market in each region.
- Reports provide opportunities and threats faced by suppliers in the Escherichia Coli Strain industry around the world.
- The report shows regions and sectors with the fastest growth potential.
- A competitive environment that includes market rankings of major companies, along with new product launches, partnerships, business expansions, and acquisitions.
- The report provides an extensive corporate profile consisting of company overviews, company insights, product benchmarks, and SWOT analysis for key market participants.
- This report provides the industry's current and future market outlook on the recent development, growth opportunities, drivers, challenges, and two regional constraints emerging in advanced regions.

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Questions Answered by the Report:

- (1) Which are the dominant players of the Escherichia Coli Strain Market?
- (2) What will be the size of the Escherichia Coli Strain Market in the coming years?

- (3) Which segment will lead the Escherichia Coli Strain Market?
- (4) How will the market development trends change in the next five years?
- (5) What is the nature of the competitive landscape of the Escherichia Coli Strain Market?
- (6) What are the go-to strategies adopted in the Escherichia Coli Strain Market?

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