

Catalase Market By Source (Bovine liver, Micro-organisms, Others) , By Form (Liquid, Powder) By End-use (Food & beverage, Textile, Healthcare, Personal care, Others) : Global Opportunity Analysis and Industry Forecast, 2024-2033

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Abstracts

The catalase market was valued at \$391.2 million in 2023, and is projected to reach \$536.6 million by 2033, growing at a CAGR of 3.3% from 2024 to 2033.

Catalase is an ubiquitous tetrameric heme-containing enzyme found in nearly all living organisms exposed to oxygen. Its primary function is to decompose hydrogen peroxide, a harmful byproduct of many metabolic processes, into water and oxygen. It is particularly abundant in the liver and red blood cells, where detoxification processes are critical. It is crucial in protecting cells from oxidative damage by reactive oxygen species.

Increase in use of catalase in biotechnological applications, including enzyme-based assays and fermentation processes, is driving the growth catalase market. In addition, expansion of the food & beverage industry significantly contributes toward the market growth. This is attributed to the fact that catalase is used in food processing to remove hydrogen peroxide, enhancing food safety and extending shelf life. Furthermore, rise in awareness of the effects of oxidative stress on health has led to increased interest in antioxidant therapies, including catalase. Moreover, catalase is utilized in drug formulations and therapies, particularly in treating conditions associated with oxidative damage, thus spurring the market growth. However, high cost associated with the extraction and purification of catalase acts as the key deterrent factor of the global market. In addition, availability of alternative enzymes or chemical processes that can achieve similar results may limit the demand for catalase in certain applications. On the

contrary, ongoing research in enzyme applications, including catalase, in various fields like agriculture and medicine is expanding its market potential. Moreover, innovations in enzyme production and formulation technologies are enhancing the efficiency and efficacy of catalase. Such developments are expected to offer lucrative opportunities for the expansion of the global market during the forecast period.

The global catalase market is segmented on the basis of source, form, end use, and region. By source, the market is classified into bovine liver, micro-organisms, and others. Depending on form, it is categorized into liquid and powder. As per end use, it is fragmented into food & beverage, textile, healthcare, personal care, and others. Region wise, the catalase market is studied across North America, Europe, Asia-Pacific, and LAMEA.

Key Findings

By source, the micro-organisms segment is expected to grow at a notable pace from 2024 to 2033.

Depending on form, the powder segment is anticipated to lead throughout the forecast period.

As per end use, the food & beverage segment is likely to dominate the market during the forecast period.

Region wise, Asia-Pacific is projected to emerge as the most lucrative market for catalase in the coming future.

Competition Analysis

Competitive analysis and profiles of the major players in the global catalase market include MP Biomedicals LLC, Megazyme Inc, Sigma-Aldrich Co. LLC, BIO-CAT, Kolor Jet Chemical Pvt. Ltd., Biocatalysts Limited, Sekisui Diagnostics, LLC, Lumis Biotech Pvt. Ltd., and Novozymes. These major players have adopted various key development strategies such as business expansion, new product launches, and partnerships to sustain the intense competition and gain a strong foothold in the global market.

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SWOT Analysis

Key Market Segments

By Source

Bovine liver

Micro-organisms

Others

By Form

Liquid

Powder

By End-use

Food beverage

Textile

Healthcare

Personal care

Others

By Region

North America

U.S.

Canada

Mexico

Europe

France

Germany

Italy

Spain

UK

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Australia

Rest of Asia-Pacific

LAMEA

Brazil

South Africa

Saudi Arabia

Rest of LAMEA

Key Market Players

MP Biomedicals LLC

Megazyme Inc

Sigma-Aldrich Co. LLC

BIO-CAT

Kolor Jet Chemical Pvt. Ltd.

Biocatalysts Limited

Sekisui Diagnostics, LLC

Lumis Biotech Pvt. Ltd.

Novozymes

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