

Alcohol Dehydrogenase Market? By Type (Medium-chain Enzymes, Short-chain Enzymes) , By Application (Alcohol Concentration Detection, Disease Diagnosis, Catalyst) : Global Opportunity Analysis and Industry Forecast, 2024-2033

Market Report | 2024-07-01 | 216 pages | Allied Market Research

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Report description:

The alcohol dehydrogenase market was valued at \$0.6 billion in 2023, and is projected to reach \$1.1 billion by 2033, growing at a CAGR of 6.5% from 2024 to 2033.

Alcohol dehydrogenase is class of zinc-containing enzyme that is majorly responsible for the oxidation of alcohols to aldehydes or ketones. This enzyme is predominantly synthesized liver and stomach of humans that acts as a primary defense against a toxic molecule, alcohol. Alcohol dehydrogenase detoxifies this potentially harmful molecule into a mere foodstuff, thereby playing a critical role in preventing the accumulation of toxic levels and eliminating alcohol from the body.

The growth of the global alcohol dehydrogenase market is majorly driven by rise in global alcohol consumption and alarming increase in prevalence of alcohol-related diseases. This is attributed to the fact that alcohol dehydrogenase mitigates the intoxicating effects of alcohol and facilitates its excretion from the body. According to the World Health Organization, alcohol is an established carcinogen and is known to increase the risk of cancer. Approximately 401,000 cancer deaths were registered in 2019 due to alcohol consumption. In addition, rise in awareness about alcohol-related health issues and the need for effective diagnostic tools and treatments boosts the demand for alcohol dehydrogenase. Moreover, increase in adoption of alcohol dehydrogenase in green chemistry notably contributes toward the growth of the market. However, high production cost of alcohol dehydrogenase restrains the growth of the market. Furthermore, the complexity associated with the production process and the need for advanced technology and skilled technicians incur additional costs, which further restrict the market growth. On the contrary, advances in diagnostic technologies, such as more accurate and efficient assays for measuring alcohol dehydrogenase activity, are expected to offer remunerative opportunities for the market growth during the forecast period. Furthermore, technological innovations in biotechnology and enzyme engineering contribute to the development of new alcohol dehydrogenase products and applications, including recombinant alcohol dehydrogenase enzymes and improved diagnostic assays, which are anticipated to open new avenues for the expansion of the market.

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The alcohol dehydrogenase industry is segmented into type, application, and region. On the basis of type, the market is bifurcated into medium-chain enzymes and short-chain enzymes. On the basis of application, the market is segregated into alcohol concentration detection, disease diagnosis, and catalyst. Region wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Key Findings

By type, the medium-chain segment dominated the market in 2023.

On the basis of application, the alcohol concentration detection segment held a major share of the market in 2023.

Region wise, North America exhibited the highest growth in 2023.

Competition Analysis

Competitive analysis and profiles of the major players in the global alcohol dehydrogenase market include Sigma-Aldrich, Thermo Fisher Scientific, BioVision Inc., Creative Enzymes Technologies, LLC, MP Biomedicals, Randox Laboratories Limited, Sekisui Diagnostics, Prospec-Tany Technogene Ltd., Roche Diagnostics, and Worthington Biochemical Corporation. These major players have adopted various key development strategies such as business expansion, new product launches, and partnerships to strengthen their foothold in the competitive market.

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Key Market Segments

By Type

- Medium-chain Enzymes
- Short-chain Enzymes

By Application

- Alcohol Concentration Detection
- Disease Diagnosis
- Catalyst

By Region

- North America
- U.S.

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- LAMEA
- Brazil
- South Africa
- Saudi Arabia
- Rest of LAMEA
- Key Market Players
- Sigma-Aldrich
- Thermo Fisher Scientific Inc.
- BioVision Inc.
- Creative Enzymes Technologies, LLC
- MP Biomedicals
- Randox Laboratories Limited
- Sekisui Diagnostics
- Prospec-Tany Technogene Ltd.
- Roche Diagnostics
- Worthington Biochemical Corp.

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