

Antimicrobial (Enzymatic) Protein Hydrolysates Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

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Report description:

The Global Antimicrobial (Enzymatic) Protein Hydrolysates Market for food and pet food applications amassed USD 256.2 million in 2024 and is projected to grow at a CAGR of 7.4% from 2025 to 2034. This growth is primarily driven by the increasing demand for natural, bio-based antimicrobial agents across industries such as food, pharmaceuticals, and personal care.

As consumers become more aware of the risks associated with synthetic preservatives, enzymatic protein hydrolysates are gaining popularity due to their functional benefits, including extended shelf life and enhanced health properties. The growing concern over antimicrobial resistance is prompting industries to turn to protein-based hydrolysates, which have been shown to effectively control harmful microorganisms. Furthermore, advances in biotechnology have improved the production efficiency of these hydrolysates, increasing their availability and supporting their adoption across various sectors, including nutraceuticals and animal feed.

The antimicrobial protein hydrolysates market is categorized by source, with the main segments being plant, animal, and microorganisms. The animal-derived segment held the largest market share in 2024, generating USD 149.9 million, and is expected to reach USD 306.9 million by 2034. Animal-based proteins, sourced from fish, milk, and eggs, are highly valued for rich amino acid profiles and bioactive peptides, which show antimicrobial features. These proteins are widely used in food preservation and medications owing to their safety and effectiveness in inhibiting the growth of harmful microorganisms.

In terms of form, the market is divided into liquid, powder, and paste categories. The powder form leads the market, accounting for 63% share in 2024. Powders are preferred due to their stability, which makes them easier to transport and handle across different industries, including food, pharmaceuticals, and cosmetics. They also offer precise dosing, allowing manufacturers better control over formulations. Additionally, powdered hydrolysates are highly adaptable, as they can be reorganized into fluids or added to dry mixes, improving their serviceability in various applications.

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U.S. antimicrobial (enzymatic) protein hydrolysates market for food and pet food applications was valued at USD 57.9 million in 2024. This market is growing rapidly due to increasing consumer demand for clean-label, natural ingredients in food products. The shift away from synthetic preservatives, along with heightened concerns about antimicrobial resistance, is further driving the demand for bio-based antimicrobial solutions in both pharmaceuticals and nutraceuticals.

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