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Insect Protein Hydrolysates Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

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Abstracts

The Global Insect Protein Hydrolysates Market was valued at USD 395 million in 2024 and is estimated to grow at a CAGR of 16.7% to reach USD 2 billion by 2034.

Demand is increasing as insect-derived hydrolysates become an important part of the alternative-protein segment. Enzymatic processing applied to insect sources such as mealworms and black soldier fly larvae has produced ingredients with improved absorption, high bioactivity, and versatile nutritional properties. This profile makes them appealing for high-value uses spanning sports and clinical nutrition, pet health, and functional food development, attracting both innovators and investors. Insect farming's resource-efficient footprint aligns with sustainability goals and reinforces the appeal of these products as eco-friendly protein solutions. Their unique compositional strengths, including antioxidant and immune-support capacities, further position them well in medical and nutraceutical applications. As more countries advance regulatory pathways for insect-based ingredients, commercial opportunities are broadening, while consumer preferences continue shifting toward protein-dense, clean-label, and multifunctional formulations. Regional trends reflect differing cultural acceptance of insect-based proteins, along with government-backed sustainability initiatives, adding further momentum to market adoption.

The black soldier fly hydrolysates segment held 49.5% share in 2024 and is projected to grow at a CAGR of 16.4% through 2034. Their rise is linked to strong amino acid profiles and comparatively lower production costs, which make them suitable for a wide range of nutrition and feed applications. Hydrolysates sourced from crickets are increasingly incorporated into human nutrition categories due to their clean-label positioning and favorable digestibility traits. Meanwhile, mealworm-derived hydrolysates

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are gaining traction in advanced clinical formulations and other specialized dietary products because of their well-rounded nutrient composition.

The enzymatic hydrolysis segment held a 59.8% share in 2024 and is projected to grow at a CAGR of 16.6% from 2025 to 2034. This method is widely used because it enables consistent peptide structures with high functional activity tailored to sports and clinical nutrition needs. Advances in process engineering, including optimized hydrolysis control, improved filtration, and efficient drying techniques, are helping manufacturers scale production while preserving the bioactive integrity of the final product.

North America Insect Protein Hydrolysates Market held a 27.6% share in 2024. Rising awareness of sustainable nutrition, combined with interest in ingredients that support digestive health, continues to shape market expansion. The region is also seeing increasing use of insect-based hydrolysates in pet food and aquaculture, creating a broader set of applications alongside human nutrition.

Leading companies in the Insect Protein Hydrolysates Market include Ynsect, Protix B.V., InnovaFeed, ProNuvo, Hexafly, Nutrition Technologies, AgriProtein (acquired by Insect Technology Group), Entocycle, P&O Biotechnology, and Agronutris. Companies participating in the Insect Protein Hydrolysates Market pursue several strategies to strengthen their competitive edge. Many are investing in expanding production capacity to meet growing demand for sustainable proteins. Firms are prioritizing technological improvements in enzymatic processing, waste-to-value systems, and vertically integrated insect farming to optimize yield and cost-efficiency. Strategic partnerships with nutrition brands, pet food manufacturers, and feed producers help accelerate market penetration. Companies are also focusing on developing high-purity peptide fractions tailored for specialized nutrition segments, enhancing product differentiation.

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CHAPTER 9 COMPANY PROFILES

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