+357 96 030922
info@marketpublishers.com

# Cellular Agriculture Market Forecasts to 2032 – Global Analysis By Product Type (Tofu, Tempeh, Seitan, Quorn, and Other Product Types), Type, Source, Distribution Channel, Technology, Application and By Geography

https://marketpublishers.com/r/C4F37CD14064EN.html
Date: June 2025
Pages: 150
Price: US$ 4,150.00 (Single User License)
ID: C4F37CD14064EN

## Abstracts

According to Stratistics MRC, the Global Cellular Agriculture Market is accounted for $246.14 billion in 2025 and is expected to reach $788.75 billion by 2032 growing at a CAGR of 18.1% during the forecast period. Cellular agriculture is a field of biotechnology that focuses on producing agricultural products directly from cells, rather than raising animals or growing plants. It involves cultivating animal cells or using microorganisms to create meat, dairy, eggs, leather, and other materials. By bypassing traditional farming, cellular agriculture aims to reduce environmental impact, improve food security, and offer ethical alternatives to conventional animal agriculture while maintaining similar taste, texture, and nutritional value.

According to FAOSTAT data, wheat yields decreased from 3,704.4 kg/ha in 2022 to 3,625 kg/ha in 2023, with similar declining trends observed in barley and other coarse grains.

Market Dynamics:

Driver:

Rising demand for sustainable protein

The rising demand for sustainable protein in the cellular agriculture market is fuelled by the need for more efficient and eco-friendly food production systems, as conventional

+357 96 030922
info@marketpublishers.com

animal farming struggles to meet global protein demands without excessive environmental harm. Increasing population growth and meat consumption further strain resources, accelerating interest in lab-grown alternatives. Health-conscious consumers prefer cleaner, antibiotic-free protein, while ethical concerns over animal welfare drive demand for cruelty-free options. Additionally, supportive policies and investments from major food companies further propel the market, positioning cell-based protein as a sustainable solution for future food security.

Restraint:

Competitive pressure from plant-based alternatives

Unlike lab-grown meat, plant-based alternatives require less regulatory scrutiny, have shorter development cycles, and benefit from existing supply chains, making them more accessible. Additionally, consumer familiarity and preference for plant-based options, perceived as more natural, create hurdles for cell-based proteins to gain market share. Price sensitivity further favours plant-based products, as cellular agriculture still faces high production costs. This competitive landscape forces cell-based protein companies to innovate rapidly while overcoming cost and scalability barriers.

Opportunity:

Increasing food security needs

As conventional animal farming struggles with environmental constraints and resource inefficiencies, the increasing need for food security is accelerating growth in the cellular agriculture market. Cellular agriculture provides a sustainable alternative, requiring minimal land and water while avoiding the ecological impacts of traditional livestock production. Moreover, by enabling local production in controlled environments, cellular agriculture reduces dependence on complex supply chains vulnerable to disruptions. This positions cultured proteins as a strategic solution for building more resilient and adaptable food systems in the face of growing demand and climate uncertainties.

Threat:

Long development timelines

Extended research and regulatory hurdles slow product launches, increasing costs and reducing investor confidence. This stagnation can hinder market expansion, allowing

+357 96 030922
info@marketpublishers.com

traditional agriculture to maintain dominance. Moreover, prolonged timelines risk technological obsolescence, as newer advancements may outpace current developments. Consumer trust and adoption rates also suffer, as long waits can lead to skepticism about scalability and affordability.

Covid-19 Impact

The COVID-19 pandemic accelerated interest in cellular agriculture by exposing vulnerabilities in traditional meat supply chains, including slaughterhouse closures and zoonotic disease risks. Lockdowns disrupted conventional production, boosting demand for resilient alternatives like lab-grown protein. Investment surged as stakeholders sought pandemic-proof food solutions, while consumer awareness of sustainable options grew. However, R&D delays and funding challenges temporarily slowed progress. Overall, the crisis highlighted the need for decentralized, secure food systems, positioning cellular agriculture as a long-term solution for future disruptions.

The isolates segment is expected to be the largest during the forecast period

The isolates segment is expected to account for the largest market share during the forecast period, driven by the need for pure, scalable cell lines to produce lab-grown meat efficiently. Key growth factors include advancements in stem cell technology, the push for serum-free media to reduce costs, and the demand for consistent, contamination-free inputs. Regulatory requirements for food safety also emphasize the importance of well-characterized isolates in ensuring product quality and commercial viability.

The tissue engineering segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the tissue engineering segment is predicted to witness the highest growth rate, due to the demand for structured, realistic meat alternatives that mimic conventional meat. Key factors include advancements in 3D bio-printing, scaffold development, and cell culture techniques, enabling scalable production of muscle and fat tissues. Consumer expectations for authentic texture and taste, alongside sustainability and ethical concerns, further accelerate innovation in tissue-engineered food products.

Region with largest share:

+357 96 030922
info@marketpublishers.com

During the forecast period, the Asia Pacific region is expected to hold the largest market share due to rising meat demand, and limited agricultural land, pushing sustainable alternatives. Government support, R&D investments, and start-ups in Singapore, Japan, and China accelerate innovation. Growing health and environmental awareness, coupled with food security concerns, boost adoption. In addition, regulatory approvals and partnerships with traditional meat producers further propel market expansion in the region.

Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR, fuelled by strong consumer demand for sustainable, ethical protein, backed by rising climate consciousness. Heavy investments from tech and food giants, supportive FDA/USDA regulations, and a thriving start-ups ecosystem drive innovation. Additionally, proactive government initiatives and partnerships with research institutions are accelerating product development and commercialization across the U.S. and Canada.

Key players in the market

Some of the key players profiled in the Cellular Agriculture Market include Eat Just, Inc., Perfect Day, Inc., Aleph Farms, UPSIDE Foods, BlueNalu, Inc., Formo GmbH, Remilk, Mosa Meat, Finless Foods, Meatable, Air Protein, Avant Meats, SuperMeat, Wildtype, and Shiok Meats.

Key Developments:

In May 2025, Eat Just, Inc., has launched its new protein powder, Just One, which is now available at Whole Foods Market locations across the United States. This product is distinct for being made with just one ingredient: mung beans, a legume known for its high protein content and sustainability.

In January 2025, Upside Foods is aiming to launch chicken shreds its second product in the US by year-end. Despite its legal battle against Florida’s leaders and an uncertain political landscape around alternative proteins, Upside Foods is looking to move forward. While the Californian startup is cleared to sell its cultivated chicken fillet containing 99% chicken cells it stopped selling this at restaurants last year with the product is in relatively tight supply.

+357 96 030922
info@marketpublishers.com

Product Types Covered:

- Tofu
- Tempeh
- Seitan
- Quorn
- Other Product Types

Types Covered:

- Isolates
- Concentrates
- Textured

Sources Covered:

- Wheat Protein
- Soy Protein
- Pea Protein
- Other Sources

Distribution Channels Covered:

- Direct to Consumer (D2C)
- Foodservice & Restaurants

+357 96 030922
info@marketpublishers.com

Retail (Supermarkets, Hypermarkets)

Online Platforms

Technologies Covered:

Tissue Engineering

Precision Fermentation

Scaffold-based Culture

3D Bioprinting

Bioreactor Technology

Other Technologies

Applications Covered:

Food and Beverage

Cosmetics and Personal Care

Pharmaceuticals and Nutraceuticals

Textiles and Fashion

Other Applications

Regions Covered:

North America

US

+357 96 030922
info@marketpublishers.com

- Canada
- Mexico

Europe

- Germany
- UK
- Italy
- France
- Spain
- Rest of Europe

Asia Pacific

- Japan
- China
- India
- Australia
- New Zealand
- South Korea
- Rest of Asia Pacific

South America

- Argentina
- Brazil

+357 96 030922
info@marketpublishers.com

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:
- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

+357 96 030922
info@marketpublishers.com

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

+357 96 030922
info@marketpublishers.com

# Contents

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com



## 12 KEY DEVELOPMENTS



## 13 COMPANY PROFILING

+357 96 030922
info@marketpublishers.com

# List Of Tables

## LIST OF TABLES

+357 96 030922
info@marketpublishers.com



Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

+357 96 030922
info@marketpublishers.com

## I would like to order

Product name: Cellular Agriculture Market Forecasts to 2032 – Global Analysis By Product Type (Tofu, Tempeh, Seitan, Quorn, and Other Product Types), Type, Source, Distribution Channel, Technology, Application and By Geography

Product link: https://marketpublishers.com/r/C4F37CD14064EN.html

Price: US$ 4,150.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/C4F37CD14064EN.html