

Category

Best EcoHealth Solution

Organization/Company Name

Provide the official name of your company or organization.

Aleph Farms

Overview (Up to 500 words)

Provide key information about the company, including its origins, mission, and core philosophy.

Describe the solution, impact, and sector focus (e.g., water management, renewable energy, circular economy, waste management, sustainable agriculture, net-zero initiatives, etc.).

Company Overview: Aleph Farms

Founded in 2017 in Rehovot, Israel, Aleph Farms pioneers the field of cellular agriculture with a mission to produce high-quality, sustainable animal products directly from animal cells-without the need for raising or slaughtering animals. The company's flagship product, Aleph Cuts, is the world's first cultivated beef steak, marking a significant step in transforming the global food system through bio-innovation.

Aleph Farms operates at the intersection of sustainable agriculture, climate resilience, and food security. By harnessing the power of nature and advanced biotechnology, the company is helping shape a new bioeconomy-an economic model that relies on renewable biological resources and processes to meet human needs while preserving planetary health.

At the core of Aleph Farms' philosophy is a commitment to responsible innovation. The company believes in harmonizing technology with natural ecosystems to achieve food systems that are both regenerative and resilient. This approach addresses multiple global challenges at once, from greenhouse gas emissions and land degradation to nutrition and social equity.

Using proprietary techniques to grow animal muscle tissue in controlled environments, Aleph Farms reduces the environmental footprint of meat production. According to a CE Delft life cycle analysis, cultivated beef produced with renewable energy can reduce greenhouse gas emissions by up to 92%, land use by 90%, and pollution by 94% compared to conventional beef. Additionally, the production process requires just a few weeks-compared to the 15-30 months needed to raise cattle-while using significantly fewer natural resources.

Beyond sustainability, Aleph Farms' model enhances food security through decentralized production. Cultivated meat can be grown in closed systems close to urban centers, diversifying food supply chains and making countries less vulnerable to climate disruptions or geopolitical shocks. This is especially crucial in regions with limited arable land or water.

Aleph Farms is not only developing a new category of animal proteins-it is advancing a system-level solution that aligns with net-zero goals, circular economy principles, and the broader transition to a bio-based future. By collaborating with policymakers, scientists, and communities, the company is

contributing to a global shift toward sustainable food production rooted in environmental stewardship, economic resilience, and social progress.

As a recognized contributor to the World Economic Forum's report on accelerating the bioeconomy, Aleph Farms continues to advocate for supportive policies and public engagement to unlock the full potential of cellular agriculture. The company's work exemplifies how biotechnology, when responsibly scaled, can build a healthier, more equitable world for future generations.

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Climate Health & Alignment with UN SDGs / National Policy Guidelines (500 words)

Please explain how your innovation mitigates or adapts to climate-related health risks and aligns with the United Nations Sustainable Development Goals (SDGs) and national climate policies.

Aleph Farms' cellular agriculture platform addresses the complex intersection between climate, health, and sustainable development. By producing high-quality animal proteins directly from cells, our innovation significantly reduces the environmental footprint of meat production, while enhancing global food security, nutrition, and public health outcomes. In doing so, it contributes meaningfully to the achievement of multiple United Nations Sustainable Development Goals (SDGs) and aligns with national climate strategies targeting net-zero emissions and resilient food systems.

Climate change exacerbates food insecurity, malnutrition, zoonotic disease risks, and respiratory illnesses linked to air pollution. Traditional livestock agriculture is one of the largest contributors to greenhouse gas emissions, land degradation, and water pollution. By contrast, Aleph Farms' cultivated meat platform decouples meat production from animal farming, mitigating many of these climate-related health risks. According to a CE Delft life cycle analysis, cultivated beef produced with renewable energy can reduce greenhouse gas emissions by 92%, land use by 90%, and water pollution by 94%, compared to conventional beef. This substantial reduction in environmental impact helps mitigate the adverse health outcomes associated with climate change.

In addition, cultivated meat is produced in closed, sterile environments, minimizing the risk of antibiotic resistance and zoonotic disease transmission—two major public health threats associated with intensive livestock farming. With improved food safety and lower exposure to contaminants, our innovation offers a healthier and more secure protein source, especially important in a warming world with increasing foodborne and climate-exacerbated disease threats.

Aleph Farms' work directly supports several key SDGs, including:

SDG 2 - Zero Hunger: By enabling decentralized protein production with minimal resources, our solution improves food security, particularly in climate-vulnerable and resource-constrained regions.

SDG 3 - Good Health and Well-Being: Cultivated meat eliminates the need for antibiotics and reduces exposure to foodborne pathogens, supporting public health.

SDG 12 - Responsible Consumption and Production: Our precision approach to meat cultivation drastically improves resource efficiency and reduces food system waste.

SDG 13 - Climate Action: With significantly lower emissions and land-use requirements, our technology directly contributes to climate mitigation.

SDG 15 - Life on Land: Reduced deforestation and biodiversity loss through minimized agricultural land use aligns with conservation targets.

Aleph Farms' innovation aligns with national climate policies which prioritize sustainable agriculture, food innovation, and emissions reductions under frameworks such as the Paris Agreement and national net-zero strategies. Our closed-system production model enables the localization of protein manufacturing, reducing dependency on imported food and boosting resilience in the face of climate shocks. This supports national goals to enhance food sovereignty and adapt to climate change by diversifying production systems and securing domestic supply chains.

Furthermore, Aleph Farms actively contributes to global policy discussions on the bioeconomy, including through its participation in the World Economic Forum. Our approach exemplifies how science-led innovation, aligned with supportive policy, can drive equitable climate solutions that benefit both people and planet.

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Measurable Impact (300 words)

Explain how you benchmark success and impact using scientific validation and quantifiable metrics where possible (e.g., peer-reviewed publications, Life Cycle Assessment (LCA) data, partnerships, net-zero targets, CO₂ reduction, resource efficiency, waste diversion rates, improved health outcomes, etc).

At Aleph Farms, we measure success through scientifically validated, quantifiable outcomes that reflect our commitment to sustainability, climate resilience, and public health. Our benchmarking framework includes environmental impact assessments, health and safety metrics, and alignment with global and national sustainability targets.

A cornerstone of our impact validation is a peer-reviewed Life Cycle Assessment (LCA) conducted by CE Delft. This study demonstrates that cultivated beef produced with renewable energy can reduce greenhouse gas emissions by up to 92%, land use by 90%, and water pollution by 94% compared to conventional beef production in Western Europe. These metrics offer a transparent and comparative basis to track our performance against net-zero goals and resource-efficiency targets.

Our production model also supports decentralized manufacturing, reducing transportation emissions and enhancing food security in regions with limited agricultural land. By growing animal cells in closed, sterile systems, we eliminate the need for antibiotics and significantly reduce the risk of contamination, thereby contributing to improved public health outcomes and food safety.

We actively collaborate with international research institutions, regulators, and industry stakeholders to strengthen data transparency and scientific rigor. Our participation in global initiatives like the World Economic Forum's bioeconomy report and partnerships with leading universities and biotech firms further reinforce the credibility and relevance of our metrics.

Looking forward, we are developing a comprehensive impact dashboard to monitor key performance indicators, including CO₂ reduction per kilogram of product, energy and water usage, waste diversion rates, and nutritional equivalency benchmarks. These indicators are used to guide decision-making and ensure accountability as we scale.

By aligning our operations with science-based metrics and transparent reporting, Aleph Farms ensures that our innovations deliver real, measurable benefits for people, planet, and future generations.

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Current Stage & Market Potential (500 words)

Describe the current stage and potential for scaling your solution to new markets, industries, or geographies. If any, include details on market demand, regulatory considerations, barriers to scale, adoption strategy and long-term sustainability.

Aleph Farms is at a pivotal stage of disciplined growth, having laid a robust foundation for commercialization while maintaining a clear path toward profitability. As we enter 2025, the company is operating with a lean and focused strategy, supported by a recently extended runway and \$29M in new funding raised over the past two years. This includes a successful initial closing of a \$7M Series B extension and a \$22M SAFE round in 2023-clear indicators of investor confidence in our long-term potential.

Our first product, Petit Steak, represents the debut of the Aleph Cuts line and is the focus of our go-to-market efforts. We've adopted an asset-light, phased scale-up strategy designed to reach profitability with minimal additional equity investment. This includes leveraging contract manufacturing organizations (CMOs), prioritizing smaller high-value markets like Israel and Singapore, and postponing capital-intensive scale-up investments until after securing commercial traction.

We've already achieved significant milestones to reduce market and regulatory risk:

Regulatory approvals: First-in-world clearance for cultivated beef in Israel, with four more applications in advanced stages.

Cost optimization: 97% production cost reduction via our scalable "Platform 1.2".

Commercial traction: Four initial commercial agreements secured in 2024, confirming interest from global partners.

Product-market fit: Validated through chef workshops across Israel, Thailand, Europe, and Singapore-refining our product offering for diverse culinary traditions and pricing strategies.

We are positioning Petit Steak as a premium yet accessible product, with influential culinary voices such as Chef Eyal Shani (17 restaurants in Tel Aviv, 50 worldwide), Adeena Sussman, and Ruben Maislos helping drive consumer interest and build anticipation across multiple markets. These collaborations also facilitate tailored go-to-market strategies that respect local taste preferences and cultural nuances.

In terms of market potential, cultivated meat is projected to grow into a multi-billion-dollar industry within the next decade, fueled by increasing consumer awareness around sustainability, food safety, and animal welfare. Aleph Farms is positioned to lead within this category through its focus on whole cuts and premium-quality experiences that conventional meat alternatives struggle to replicate.

Our innovation addresses multiple barriers to traditional meat production-land availability, emissions, disease risk-and enables decentralized production close to consumption hubs. This supports long-

term resilience and scalability in a changing climate. Regulatory momentum is accelerating globally, with countries like Singapore, Israel, and the U.S. already shaping clear pathways for cultivated meat, and others expected to follow.

In 2025, our short-term goals include launching Petit Steak in at least one market, validating our techno-economic assumptions, negotiating a commercial off-take agreement, and securing additional regulatory approvals. Simultaneously, we aim to raise \$10-15M in additional funding to support execution and bridge to profitability.

By narrowing focus, minimizing risk, and scaling responsibly through partnerships, Aleph Farms is evolving into a more resilient and financially sound company. With a proven platform, global interest, and a maturing regulatory landscape, we are well-positioned to expand into new geographies and sectors, and to lead the next wave of bioeconomy innovation in sustainable agriculture and climate-aligned protein production.

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Staff and Advisors (500 words)

Describe your team's expertise (e.g., academic standing, intellectual property contributions, research collaborations, and professional communications). Highlight the team's role in innovation, policy influence, and industry leadership.

Aleph Farms is led by a multidisciplinary team of scientists, entrepreneurs, policy experts, and communicators who bring deep expertise in biotechnology, food innovation, sustainability, and global systems change. Together, they are advancing a new paradigm in sustainable protein production through cellular agriculture.

The company was co-founded by Didier Toubia, CEO and entrepreneur in the food and health sectors; Professor Shulamit Levenberg, a world-renowned tissue engineering pioneer and former Dean of the Biomedical Engineering Faculty at the Technion - Israel Institute of Technology; and Dr. Neta Lavon, a leading expert in stem cell biology and regenerative medicine. Dr. Lavon serves as Chief Technology Officer and has led the development of Aleph Farms' core technology, which is protected by 18 patent families. Her leadership was instrumental in the creation of "Platform 1.2," the company's scalable and cost-efficient production system that has reduced production costs by 97% since 2022.

Yifat Gavriel, Chief of Regulatory and Product Safety, brings decades of experience in food quality assurance and global regulatory compliance. She played a key role in securing Israel's first-ever regulatory approval for cultivated beef, and leads Aleph Farms' global regulatory strategy with additional submissions under review.

The company benefits from a high-caliber advisory network. Aimee Christensen, CEO of Christensen Global and a leader in environmental strategy and policy, advises Aleph Farms on climate and sustainability frameworks. Danielle Nierenberg, President of Food Tank, contributes expertise in food systems transformation, equity, and global advocacy. Leonardo DiCaprio, environmentalist and impact investor, supports the company's mission to create climate-smart food solutions and amplify public awareness around the need for sustainable protein alternatives.

Culinary innovation is a cornerstone of Aleph Farms' approach. Michelin-starred chef Eyal Shani joined as a launch partner and investor, bringing global culinary influence through his 50+ restaurants worldwide.

Through partnerships with strategic players like Thai Union, Migros, Strauss Group, and Temasek's Nurasa, Aleph Farms has built a global network to support scale-up, localization, and commercialization. The company is also deeply involved in policy and thought leadership. As a contributor to the World Economic Forum's Accelerating the Global Transition to a Bio-Based Economy report, Aleph Farms has helped shape global conversations on food system resilience and the role of cellular agriculture in achieving climate and food security goals.

Aleph Farms combines scientific rigor, entrepreneurial discipline, and global influence to lead the transformation of food systems. By uniting technology, policy, and culture, the company's team is uniquely positioned to scale solutions that are not only sustainable and equitable but also deeply aligned with the values of environmental stewardship and human well-being.

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Financial Structure. (500 words)

Describe how your innovation is funded and sustained (e.g., key investors, funding sources, financial stakeholders, royalties, grants, revenue-sharing agreements, strategic partnerships such as academic institutions, equity groups, corporate alliances, and angel investors, etc.).

Aleph Farms is backed by a robust and diversified financial structure designed to support its long-term vision of transforming protein production through cellular agriculture. Our funding strategy combines equity investments, strategic partnerships, and public-private collaborations, ensuring both financial resilience and mission alignment.

Since its founding in 2017, Aleph Farms has raised significant capital from a strong consortium of mission-aligned investors, including venture capital firms, impact investors, food industry leaders, and sovereign-backed funds. Our investors share a commitment to sustainable food systems, innovation, and long-term value creation.

Key investors include L Catterton, one of the world's largest consumer-focused private equity firms, and DisruptAD, the venture platform of Abu Dhabi's ADQ, which supports transformative technologies aligned with the UAE's food security and climate goals. Other notable investors include VisVires New Protein, CPT Capital, New Crop Capital, and Skyviews Life Science. Their deep expertise in biotech, food-tech, and sustainability enables Aleph Farms to scale with both financial backing and strategic guidance.

In 2021, Aleph Farms successfully closed a Series B funding round, followed by a SAFE round in 2023 that brought in \$22 million. In 2025, we initiated a Series B extension, securing an additional \$7 million from existing investors. Together, this \$29 million in fresh funding over two years strengthens our position to execute a lean and focused strategy toward commercialization and profitability, while minimizing the need for additional equity dilution.

Aleph Farms' asset-light scale-up model is designed for capital efficiency. Instead of building capital-intensive infrastructure, we work with contract manufacturing organizations (CMOs) and strategic partners for production and distribution. This model reduces overhead, accelerates deployment in new markets, and shares risk across the value chain.

Our business model also emphasizes revenue-sharing partnerships and joint ventures with established food companies. For example, we work with Thai Union in Southeast Asia and Migros in

Europe to develop regulatory pathways, distribution strategies, and localized manufacturing plans. These partnerships enable rapid market entry while leveraging local knowledge and infrastructure. Our collaboration with Temasek-owned Nurasa further supports commercialization in Asia and aligns with regional sustainability priorities.

Aleph Farms is also supported by public grants and research partnerships with institutions such as the Technion - Israel Institute of Technology and government innovation agencies. These collaborations not only help de-risk R&D but also contribute to the broader knowledge base around cellular agriculture.

From a commercialization perspective, Aleph Farms is launching its first product, Petit Steak, in smaller high-value markets such as Israel and Singapore. Early revenue will be reinvested into scaling production and expanding market reach. Our two-year path to breakeven is grounded in cost reductions (97% since 2022), lean operations, and focused product rollout. We aim to raise an additional \$10-15 million to support near-term goals and secure early market traction.

In summary, Aleph Farms' financial structure is designed for sustainable scale and impact. With a blend of visionary investors, strategic partnerships, and non-dilutive support, we are well-positioned to lead the cultivated meat sector toward a more resilient, equitable, and climate-aligned future.

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Regulatory Compliance & Certifications (Optional Uploads)

If appropriate, provide any regulatory approvals, environmental certifications, or compliance documents demonstrating adherence to sustainability standards (e.g., ISO 14001, B Corp Certification, LEED, WELL, SBTi commitments, REACH, USDA, etc.).

*Kindly clearly label your files with company name and asset name.

N/A

Community & Social Impact (500 words)

Explain how your innovation benefits local communities, underserved populations, or public health (e.g., job creation, social equity, environmental justice, improved quality of life, tourism, etc.).

Aleph Farms is committed to ensuring that the future of food is inclusive, equitable, and beneficial to communities around the world-particularly those most impacted by the climate crisis, economic transition, and changing food systems. Our innovation in cellular agriculture not only reduces environmental harm and enhances nutrition but also serves as a catalyst for social empowerment, local economic resilience, and improved public health.

By decentralizing meat production and enabling localized manufacturing of high-quality animal protein, Aleph Farms strengthens food security in climate-vulnerable and import-dependent regions. This is particularly critical for underserved communities and countries with limited arable land or water resources. Our model allows for production closer to consumption, reducing dependence on global supply chains and insulating local populations from supply disruptions and price volatility.

Aleph Farms has partnered with Federation University Australia to explore a just transition in livestock agriculture, ensuring that traditional producers-farmers, ranchers, and rural communities-are supported as the food system evolves. Together with Professor Harpinder Sandhu and PhD candidate

Priyambada Joshi, and under the guidance of Dr. Lee Recht, the study investigates how cellular agriculture can complement, rather than replace, existing livestock systems.

Based on interviews and surveys with over 150 beef producers across the U.S., France, and Brazil, the research highlights the need for region-specific pathways that preserve economic security, cultural heritage, and rural livelihoods. It explores solutions like cooperative business models, diversified revenue streams, regenerative grazing, and shared infrastructure. Early findings show that over a quarter of livestock producers believe that cultivated and conventional beef can coexist, with nearly half open to collaboration-creating fertile ground for inclusive innovation.

Aleph Farms' closed, sterile production systems eliminate the need for antibiotics and reduce the risk of foodborne illnesses-helping prevent zoonotic disease transmission and antibiotic resistance. Our cultivated meat offers cleaner, safer protein, produced with precision, and tailored to meet public health needs without environmental degradation.

While our technology is rooted in biotech, its scale-up creates high-quality jobs across R&D, manufacturing, logistics, regulatory affairs, culinary innovation, and education. We collaborate with local partners and institutions to build workforce development programs and upskill communities for roles in the emerging bioeconomy. Our partnerships with companies like Thai Union, Strauss Group, Mitsubishi Corporation, BRF and Cargill help integrate innovation into existing food systems, supporting rather than displacing regional economies.

We work closely with local chefs and food professionals to align Aleph Cuts with regional tastes and culinary traditions. Chef workshops and tastings in Israel, Singapore, Thailand, and Europe not only validate product-market fit but also ensure our innovation resonates with diverse cultural identities.

At Aleph Farms, community impact is central to our mission. By embracing a collaborative approach that respects both innovation and tradition, we are shaping a future of food that uplifts people, protects the planet, and honors the communities that keep it nourished.

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Document Uploads: Supporting Data & Evidence and References

Include letters of support, endorsements, or formal commitments from third parties, such as pilot partners, policymakers, academic institutions, news articles, or industry leaders, validating your approach and impact.


Provide quantifiable metrics, case studies, third-party assessments, or regulatory approvals to support your application. Please label all files with your company name and asset name.

*Kindly clearly label your files with company name and asset name.

N/A

Final Submission

You have now validated and submitted your application and are officially a candidate to the Prix Galien USA 2025.



We wish you great success.