

BCF Life Sciences strengthens its innovation with a second patent: Leafamine® Technology serving sustainable agriculture and early plant growth

Key player in Human Health, pet nutrition and plant biostimulants, BCF Life Sciences has announced the filing of a patent for an innovation set to transform agricultural practices. This innovation involves the use of a keratin hydrolysate with an exceptionally high concentration of free amino acid, applied to seeds to stimulate their emergence and early plant growth.

In the face of the challenges related to agricultural productivity and ecological transition, the Brittany-based company offers a circular economy solution that valorizes natural raw materials: poultry feathers. The patented hydrolysate stands out for its unique composition: it contains 82% amino acids in free-form, an essential compound for plant growth. The 17 amino acids present are in free form or as small peptides (<800 Da), ensuring faster assimilation by plants.

Leafamine® Technology, an innovative solution with proven performance

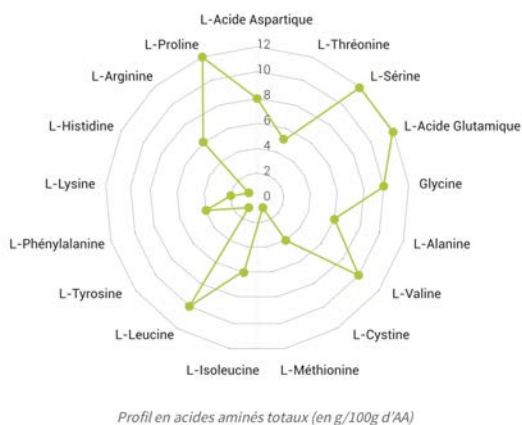
The product is designed for easy application in direct contact with seeds, including cereals (wheat, corn, barley), large-scale crops (potatoes, beets), and vegetable crops (lettuce, tomatoes). From the very first days after sowing, Leafamine® Technology acts as a genuine natural “starter,” promoting root development, fast crop establishment, and the early appearance of the first leaves. Increased root biomass enables young plants to absorb water and soil nutrients more efficiently, reducing the risk of early stresses and enhancing crop resilience to climatic hazards.

Field trials under real conditions have shown significant results. In maize crops, the application of Leafamine® Technology enabled plants to achieve an average of one additional leaf development stage compared to untreated controls, six weeks after sowing. In wheat crops, the product increased root biomass by an average of 12.8%, measured two months after planting. The results were particularly striking in potatoes: a 41.5% increase in the emerged plants was observed 39 days after sowing, confirming the expected “starter” effect.

These agronomic performances demonstrate Leafamine® Technology’s ability to optimize the earliest phases of vegetative development, which is a critical period for the success of a crop cycle. By strengthening rooting and accelerating up emergence, the solution promotes more uniform and robust crop establishment, thereby improving their resilience to climate variability and their capacity to mobilize soil resources.



Jean-Marie Lecuyer, director Plant Care by BCF Life Sciences / ©BCF Life Sciences

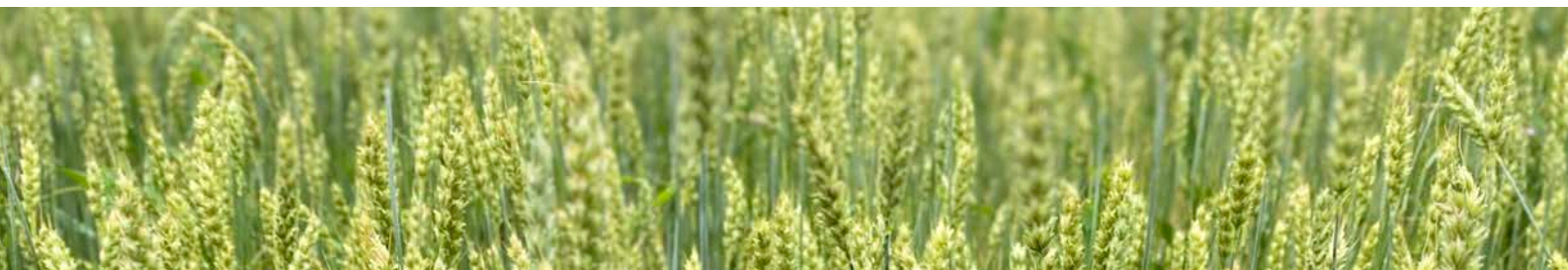


This patent on the use of free amino acids for early plant growth concretely illustrates the innovation approach driven by our R&D strategy. It embodies our commitment to providing effective, natural solutions for regenerative, high-performing and sustainable agriculture.”

Emmanuelle Mounier, R&D Plant Care Manager.

This patent represents an important step in the search for natural solutions to make agriculture more resilient and efficient. BCF Life Sciences continues its commitment to the agroecological transition by providing farmers with innovative tools to meet the challenges of tomorrow.

To note. Plant Care by BCF Life Sciences will be present at the World Biostimulant Congress, from December 2 to 4 at the CCIB in Barcelona. => <https://informaconnect.com/biostimulants-world-congress/>



ABOUT Plant Care by BCF Life Sciences

Plant Care is a specialized division of BCF Life Sciences, focusing on sustainable agricultural solutions based on free amino acids. The company has been operating in the biostimulant market for 25 years and has experienced steady growth through various B2B partnerships, from Southeast Asia to the United States.

In addition to providing unique free amino acid products, Plant Care by BCF Life Sciences is committed to generating robust scientific data on their mode of action to help its partners successfully position their products.

ABOUT BCF Life Sciences

Specializing in the extraction of amino acids from keratin (a protein found in poultry feathers), BCF Life Sciences has become, over the years, a leading international player in the human health (infant nutrition, food supplements, pharmaceuticals), animal health, and biostimulants (sustainable agriculture) sectors.

Founded in 1986 by the Guyomarc'h group, BCF Life Sciences will be integrated into the Portuguese family group SONAE SPARKFOOD in 2024, alongside the remaining shareholders, with a view to accelerating its growth and expanding the company's industrial capabilities.

BCF Life Sciences, a BPI Excellence network company, was recognized in 2023 by the Ministry of SMEs to be part of the ETIncelles program (100 of the most innovative French SMEs aiming for ETI status in the medium term) and was awarded the Ecovadis Gold Medal in 2024 for the second consecutive year.

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