

Carbone, 1 September 2026

ACTYZ – A New Biofertiliser Solution for Seed Treatment

Nitrogen nutrition begins where soil biology comes into play



Agronutrition launches ACTYZ

- A new solution applied as a seed treatment for maize and cereals, a veritable ‘mini-factory working for the soil and the plant’.
- Comprising exclusive bacterial strains selected by Agronutrition to improve fertilisation efficiency.
- To support farmers in reducing their reliance on nitrogen fertilisers.

The result of five years of joint development with LIDEA, ACTYZ combines bacteria selected by Agronutrition to act from the moment the crop is established, enabling the mobilisation of between 20 and 40 units of nitrogen through the soil’s biological activity.

At a time when growers must balance agronomic performance, cost control and increasing environmental and regulatory requirements, ACTYZ offers a different approach: making better use of available nitrogen resources through soil biology rather than increasing inputs.

“ACTYZ: improving the efficiency of nitrogen fertilisation right from the seed treatment stage”

5 years of joint development with LIDEA

ACTYZ is the result of Agronutrition’s expertise in applied microbiology, biostimulation and seed treatment. The company’s teams selected and characterised exclusive bacterial strains from their own collection of microorganisms, before combining them with Agronutrition’s formulation expertise for use in seed treatment. The solution then underwent five years of co-development on maize and cereals as part of a consortium with the seed company LIDEA. This collaboration enabled the two companies to combine their expertise to characterise the solution, assess its agronomic benefits and validate its performance under field conditions.

A multi-pronged approach, from the soil to the plant

ACTYZ stands out from conventional approaches through a comprehensive strategy for fertilisation efficiency. Its technology is based on the action of bacteria selected to work synergistically on the soil, the root system and the plant’s physiology.

When applied as early as the seed treatment stage, they enable this biological dynamic to be established around the crop at a very early stage. This approach therefore aims to support the plant in making the most of its nutritional environment and enables between 20 and 40 units of nitrogen to be mobilised through the activity of the selected bacteria.

- A technology resulting from proprietary R&D, based on the selection and characterisation of exclusive bacterial strains;
- A multi-pronged approach, acting on the soil, the root system and the plant’s physiology;
- A response to the challenge of reducing dependence on nitrogen fertilisers, by seeking greater efficiency rather than increased inputs.

From research to the field

With ACTYZ, Agronutrition translates its scientific expertise into a solution that is directly integrated into the crop's technical management programme, starting with seed treatment. This innovation serves a specific purpose: to provide farmers with an additional tool to maintain crop performance whilst advancing the management of nitrogen fertilisation.

"This innovation is the culmination of several years of research carried out by our teams. It reflects our ability to transform our scientific expertise into practical solutions for agriculture, and to support our industrial partners and distributors in developing high value-added solutions for farmers." Christelle Rudelle, Technical and Commercial Manager for the Biosolutions seed business

ACTYZ: less nitrogen applied, more nitrogen utilised

With ACTYZ, Agronutrition reaffirms its commitment to harnessing applied microbiology to promote more efficient and sustainable agriculture. By intervening as early as the seed treatment stage and drawing on the biological interactions between the soil and the plant, ACTYZ opens up a complementary approach to nitrogen nutrition management: harnessing biological processes more effectively to make better use of available resources.

KEY FEATURES

- Seed treatment • Maize & cereals • 5 years of co-development with LIDEA
- Between 20 and 40 units of nitrogen mobilised

ABOUT AGRONUTRITION

Founded in 1969, Agronutrition, a subsidiary of DSG, is a strategic partner to the agricultural sector. Its core expertise lies in understanding the interactions between mineral nutrition, plant physiology and soil biological activity.

Its operations are driven by a constant focus on performance and profitability for farms, whilst fully integrating the requirements of social and environmental responsibility.

The De Sangosse Group (DSG) is celebrating its 100th anniversary this year, a source of great collective pride: that of a company which has stood the test of time by adapting, innovating and remaining true to its roots and its long-term commitments.

ACTYZ PRESS CONTACT

Agronutrition
Christelle Rudelle
Tél. : +33 6 70 75 78 75
c.rudelle@agro-nutrition.fr