

About Us



Ihor DIDUR

Visionary & Scientific Lead



Hanna PANTSYREVA

Head of R&D & Sustainability



Oleksandr MAZUR

Chief Agronomy Officer



Alina KOROBKO

Junior Researchers / Field Ops



Yevhenii VOLYNETS

CTO & Engineering Lead



Maksym HONCHAR

Project manager



Oksana VOVK

Project manager



Dmytro MUSIIENKO

Project manager

Our capsule is a harvest insurance policy



Тривалість життя



Економія для фермера



Smart Seed Coating

MULTILAYER MICROENCAPSULATION TECHNOLOGY OF *BRADYRHIZOBIUM JAPONICUM* FOR OPTIMIZING THE SYMBIOTIC SYSTEM OF SOYBEANS



Why are modern inoculants ineffective?

Up to 80% of bacteria are killed within 24–48 hours after treatment

Fungicidal seed treatments destroy beneficial microflora

In-field inoculation creates logistical risks and wastes time

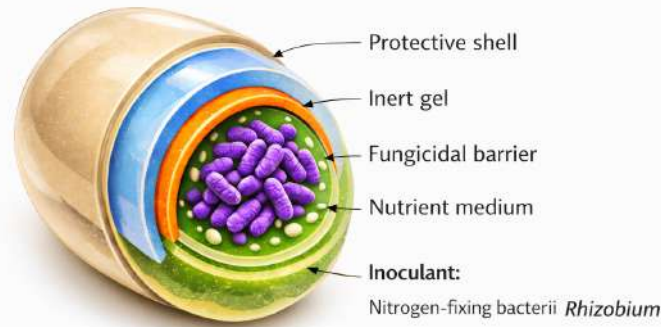
Consequences for the farmer

Yield losses of up to 15–20%

Excessive spending on nitrogen fertilizers

Inconsistent soybean yields

Structure of Smart Seed Coating



Mechanism of action



1. Protection

The capsule protects the bacteria from chemicals and drying out



2. Activation

Shell breakdown when soil moisture exceeds 15%



3. Symbiosis

Nodule formation and efficient nitrogen fixation

Parameter	Conventional inoculant	Smart Seed Coating
Bacterial survival rate	Low	High
Compatibility with fungicides		✓
Shelf life	24–48 hours	180–210 days
Result stability	Unstable	Stable

Results for the farm

+10–15% increase in yield

60–80 kg/ha of biological nitrogen

Reduced fertilizer costs

Consistent results regardless of conditions

Environmental Impact

- Reduction in CO₂ emissions
- Compliance with Green Deal requirements
- Preservation of the soil microbiome