

INNOVATIVE ORGANIC SEED COATING AND PELLETING FOR BOOSTING YIELD IN BABY PAK CHOI

TECHNOLOGY OVERVIEW

Global agriculture is under increasing pressure due to population growth and shrinking farmland. An approach to addressing this issue is optimising essential organic nutrients that enable absorbable and sustained nutrient release during seed germination and seedling growth to improve yield. An organic seed coating that enhances seedling vigor and crop yield has been developed for Baby Pak Choi. This technology enables farmers to have higher yields, shorter crop cycles, and reduced nutrient inputs required for leafy green production.

PRODUCT FEATURES

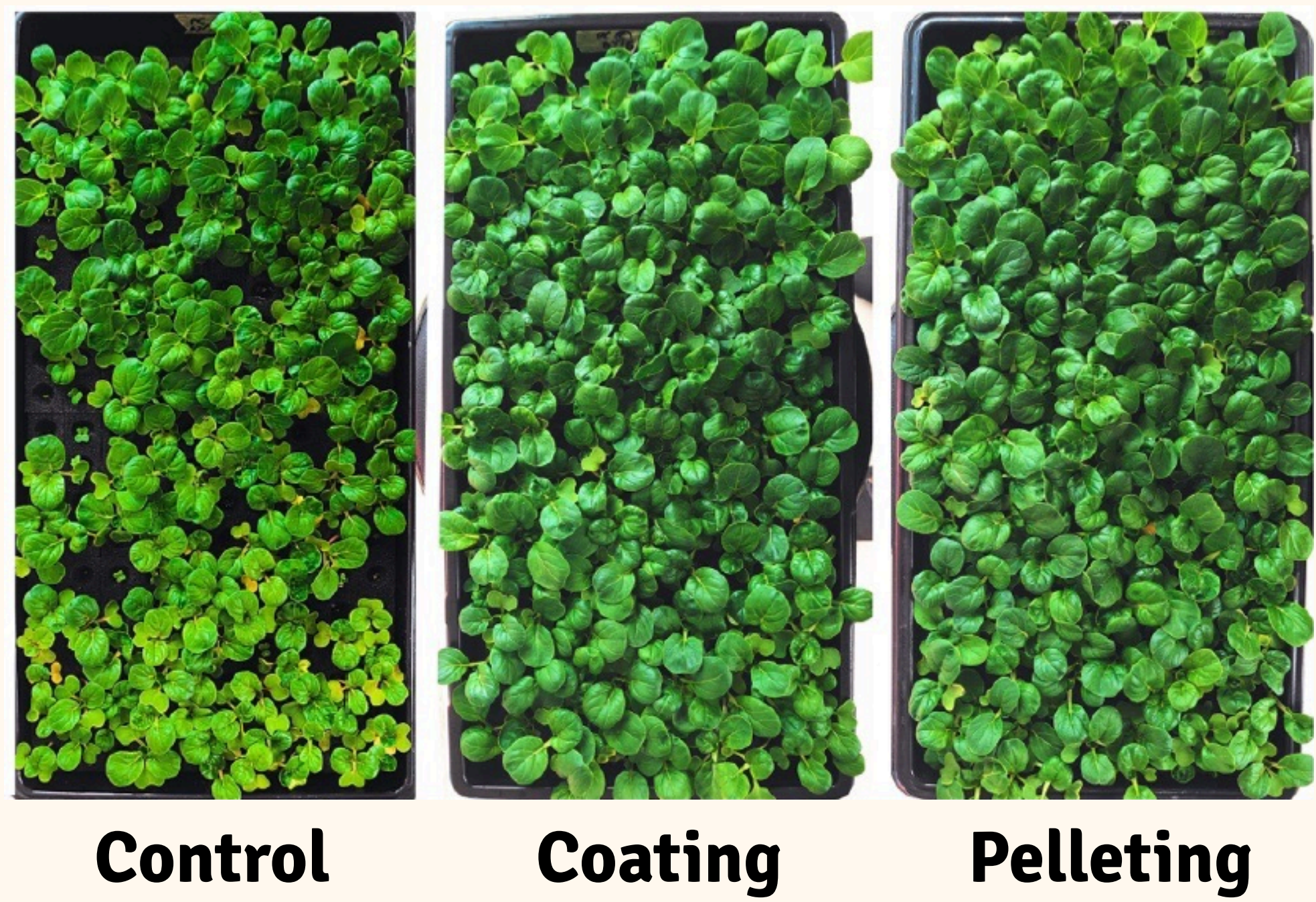
Unique features of this technology include:

- **Ease-of-Deployment** – the nutrient formulation can easily be administered to seeds through optimised seed treatment protocols.
- **Applicability** – this technology can potentially be expanded to the entire family of Leafy Brassica Vegetables.

UNIQUE VALUE PROPOSITION

- Unique organic compound mixture that delivers an optimal balance of nutrients and functional benefits.
- Increased biomass production from seed coating was sustained throughout the growth cycle, with notable increases in both solid substrate and Nutrient Film Technique (NFT) hydroponic systems.
- Coating and pelleting treatments enhanced key seedling growth parameters, including speed of germination, germination percentage, root and shoot length, and overall vigor.

Two-Week-Old Baby Pak Choi



KEY ADVANTAGES

- Farmers can shorten crop production cycles without compromising yield, allowing for more planting cycles per season.
- Early harvests free up greenhouse or field space sooner, enhancing overall productivity and profitability.
- Inputs such as water, fertilisers, and nutrients are used more effectively over a shorter duration.