TECHNOLOGYPROFILE

Beauvia Z435™

ZJU435 is a Beauveria bassiana strain with defined insect and mite targets. Its documented crop uses connect citrus and grape mite management with tomato whiteflies and maize fall armyworm.

1 Product identification

Field	Detail
Product name	Beauvia Z435™
Category	Biological crop protection
Principal components	Beauveria bassiana ZJU435
Target crops	Citrus · Grapes · Tomato · Maize
Agricultural purpose	Biological insect and mite management

2 Product role and biological basis

Fruit-crop mite management

Citrus and grape spider mites are specific source-label targets.

Tomato whitefly management

An additional biological option for a defined tomato pest.

A distinct Beauveria identity

ZJU435 is assessed as its own strain, independently of GHA.

3 Composition and material characteristics

Beauveria bassiana

The fungal species identified in the published ZJU435 research.

Strain ZJU435

The full strain identity links source labels and scientific literature.

Documented formulation

The original PD20212922 record describes a oil dispersion with a declared biological content of 1×10^{10} spores/mL. These figures identify the recorded formulation and are read with its market label.

4 Biological targets and application evidence

1. Four defined crop applications · ICAMA label PD20212922.

The record contains four crop–target pairs: citrus mites, grape mites, tomato whiteflies and maize fall armyworm.

Agricultural relevance

This record defines the original strain, formulation and Chinese application scope. Market-specific product documentation governs regional availability and permitted uses.

Four defined crop applications

2. Field research on ZJU435 · Xu and colleagues, Insects, 2023; rice planthoppers in three rice–shrimp rotation fields.

The study assessed ZJU435 under field conditions and found environmental exposure influenced observed control.

Agricultural relevance

This rice study is scientific context only; it does not substantiate tomato, citrus or grape efficacy.

Field research on ZJU435
https://doi.org/10.3390/insects14040307

5 Crop programmes and application context

Mite identification and canopy condition shape the crop discussion. Whitefly pressure is considered alongside crop health and monitoring records. The documented target is fall armyworm; this does not imply control of every maize pest.

Citrus and grape

Mite identification and canopy condition shape the crop discussion.

Tomato

Whitefly pressure is considered alongside crop health and monitoring records.

Maize

The documented target is fall armyworm; this does not imply control of every maize pest.

Spider mites

Citrus

Beauveria bassiana ZJU435 · Spider mites in citrus. Original Chinese registration PD20212922; oil dispersion.

Spider mites

Grapes

Beauveria bassiana ZJU435 · Spider mites in grape. Original Chinese registration PD20212922; oil dispersion.

Whiteflies

Tomato

Beauveria bassiana ZJU435 · Whiteflies in tomato. Original Chinese registration PD20212922; oil dispersion.

Fall armyworm

Maize

Beauveria bassiana ZJU435 · Fall armyworm in maize. Original Chinese registration PD20212922; oil dispersion.

6 Quality and compatibility

Identity and batch

Maintain correspondence between ZJU435 identity and batch documentation.

Quality specification

Biological content and viability should be documented for the supplied material.

Environmental requirements

Crop documentation should retain applicable pollinator and aquatic-environment restrictions.

7 Product questions

Are the citrus and grape targets the same?

Both source-label entries list spider mites. This does not extend the record to every mite species.

Do rice studies prove performance on tomato or grapes?

No. Rice research provides scientific context. Performance on other crops needs its own evidence.

8 References and technical documents

Product specifications and application guidance are provided in the applicable technical data sheet and market label.

1. Four defined crop applications

2. Field research on ZJU435
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Product information and technical support

Contact Huasheng