

TECHNOLOGYPROFILE

Metavia CQ421™

CQMa421 is a strain-defined fungal technology for crop protection, with research from Chongqing University and distinct crop-pest uses in its Chinese registration record. It extends the portfolio to citrus psyllids and selected vegetable and field-crop pests.

1 Product identification

Field	Detail
Product name	Metavia CQ421™
Category	Biological crop protection
Principal components	Metarhizium anisopliae CQMa421
Target crops	Citrus · Tomato · Cucumber · Cowpea · Wheat · Maize
Agricultural purpose	Crop-specific biological insect management

2 Product role and biological basis

Citrus pest management

A biological option addressing citrus psyllids.

Defined vegetable uses

Tomato whiteflies, cucumber aphids and cowpea beet armyworm have separate label entries.

University research background

Chongqing University documents the development of CQMa421-based fungal products.

3 Composition and material characteristics

Metarhizium anisopliae

The fungal species recorded for CQMa421.

CQMa421

Use the full strain identifier in technical documentation.

Documented formulation

The original PD20171744 record describes a oil dispersion with a declared biological content of 8×10^9 spores/mL. These figures identify the recorded formulation and are read with its market label.

4 Biological targets and application evidence

1. A crop-specific fungal technology • Chongqing University technology profile, November 2021.

The university records CQMa421 research, rice field use and extension into other crops.

Agricultural relevance

Rice experience is not a quantified efficacy result for citrus or vegetables.

A crop-specific fungal technology

2. Approved crop-pest identities • ICAMA label PD20171744.

The label specifies distinct crop-pest pairs rather than unrestricted crop coverage.

Agricultural relevance

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

Approved crop-pest identities

5 Crop programmes and application context

Psyllid pressure is assessed within orchard pest monitoring. Keep the specific crop and pest paired throughout technical planning. Wheat aphids and maize fall armyworm are additional documented targets.

Citrus canopy health

Psyllid pressure is assessed within orchard pest monitoring.

Vegetable pest priorities

Keep the specific crop and pest paired throughout technical planning.

Field-crop applications

Wheat aphids and maize fall armyworm are additional documented targets.

Citrus psyllids

Citrus

Metarhizium anisopliae CQMa421 • Psyllids in citrus. Original Chinese registration PD20171744; oil dispersion.

Whiteflies

Tomato

Metarhizium anisopliae CQMa421 • Whiteflies in tomato. Original Chinese registration PD20171744; oil dispersion.

Aphids

Cucumber

Metarhizium anisopliae CQMa421 • Aphids in cucumber. Original Chinese registration PD20171744; oil dispersion.

Beet armyworm

Cowpea

Metarhizium anisopliae CQMa421 • Beet armyworm in cowpea. Original Chinese registration PD20171744; oil dispersion.

Aphids

Wheat

Metarhizium anisopliae CQMa421 · Aphids in wheat. Original Chinese registration PD20171744; oil dispersion.

Fall armyworm

Maize

Metarhizium anisopliae CQMa421 · Fall armyworm in maize. Original Chinese registration PD20171744; oil dispersion.

6 Quality and compatibility

Full strain identity

Species, strain and formulation should match the product file.

Biological quality

Batch documentation should cover biological content, viability and quality period.

Application documentation

Maintain separate records for each crop-pest combination.

7 Product questions

Does this mean control of citrus greening disease?

No. The documented target is the psyllid insect. This is not a claim to cure or directly control the bacterial disease.

Can CQMa421 replace every F52 use?

No. Each strain and formulation has its own crop and target documentation.

8 References and technical documents

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

1. A crop-specific fungal technology
2. Approved crop-pest identities

Product information and technical support

Contact Huasheng