

TECHNOLOGYPROFILE

Vitaria™

Biological protection focused on grapevine canker. The technical foundation is *Bacillus halotolerans* BJ-3, with a defined strain identity, a Chinese crop-specific registration record and published vineyard research.

1 Product identification

Field	Detail
Product name	Vitaria™
Category	Biological crop protection
Principal components	<i>Bacillus halotolerans</i> BJ-3
Target crops	Grapes
Agricultural purpose	Grapevine canker management

2 Product role and biological basis

A defined grapevine target

Connects a specific biological strain with grapevine canker, rather than treating all trunk diseases as one interchangeable target.

Vineyard evidence

Published research includes a field evaluation on Cabernet Sauvignon, complementing the strain-identification work.

A place in integrated management

A biological option to assess alongside vineyard inspection, pruning hygiene and long-term vine-health records.

3 Composition and material characteristics

Bacillus halotolerans BJ-3

Bacillus halotolerans BJ-3 is the specific biological strain studied by the Beijing Academy of Agriculture and Forestry Sciences for grapevine canker management.

Documented formulation

China registration PD20252171 records *Bacillus halotolerans* BJ-3 as water-dispersible granules with a declared viable count of 2.0×10^{10} CFU/g. This specification identifies the original registered formulation.

Living microbial ingredient

Viable count and batch identity are essential quality descriptors. They should be read with the certificate of analysis and the supplied product label.

4 Biological targets and application evidence

1. Original vineyard study • Cabernet Sauvignon; a 2022 field trial reported in the 2025 paper; four replicates per treatment.

The highest reported field inhibition was 71.94%; two other BJ-3 treatments were 65.66% and 54.83%.

Agricultural relevance

Treatment-specific results from one trial. They do not establish effectiveness across all cultivars, countries or trunk-disease complexes.

From genome to field: *Bacillus halotolerans* BJ-3 as a novel biocontrol solution for grapevine *Botryosphaeria* dieback
<https://doi.org/10.1016/j.crmicr.2025.100483>

2. Research institute field report • BAAFS Institute of Plant Protection announcement, 21 October 2025.

Reported grapevine-canker control of 62.5–75.5% for the BJ-3 formulation.

Agricultural relevance

Institutional summary; full trial-level data are not provided on the announcement page.

北京市农林科学院植物保护研究所：我所获批4个微生物新农药登记证书

3. China • crop-specific registration record

PD20252171 identifies *Bacillus halotolerans* BJ-3 for grapevine canker. The original registration holder is the Beijing Academy of Agriculture and Forestry Sciences.

Agricultural relevance

Registration evidence defines the original formulation and Chinese crop use. Regional supply and applicable product documentation are assessed for each market.

MARA • Approved biological pesticide labels, Announcement No. 954

5 Crop programmes and application context

The verified Chinese label names grapevine canker. Similar wood symptoms may involve different trunk-disease agents, so diagnosis remains important. Review affected blocks, cultivar, vine age and previous management when assessing relevance to a vineyard. Keep canker outcomes separate from fruit disease, nutritional growth and yield. These are different endpoints and require their own records.

Grapevine canker

The verified Chinese label names grapevine canker. Similar wood symptoms may involve different trunk-disease agents, so diagnosis remains important.

Disease history and vine condition

Review affected blocks, cultivar, vine age and previous management when assessing relevance to a vineyard.

Evidence-linked evaluation

Keep canker outcomes separate from fruit disease, nutritional growth and yield. These are different endpoints and require their own records.

Grapevine canker

Grapes

Bacillus halotolerans BJ-3 · Grapevine canker in grape. Original Chinese registration PD20252171; water-dispersible granules.

6 Quality and compatibility

Strain traceability

Link the BJ-3 identity to the supplied batch documentation and the applicable product specification.

Product and market documentation

Use the relevant market label to define the permitted crop and target. An overseas registration record is a source document, not a local authorization.

Interpretable field records

Record the crop, disease diagnosis, comparison treatment and assessment period with every efficacy result.

7 Product questions

Does BJ-3 cover every grapevine trunk disease?

The documented scope is grapevine canker. The published study focuses on *Botryosphaeria* dieback and includes work involving *Lasiodiplodia theobromae*. Other trunk diseases require separate evidence.

What does the reported field percentage mean?

The 71.94% value is the highest treatment result in one published Cabernet Sauvignon field trial. It is not an average across countries or a guaranteed outcome for every supplied product.

8 References and technical documents

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

1. From genome to field: *Bacillus halotolerans* BJ-3 as a novel biocontrol solution for grapevine *Botryosphaeria* dieback
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2. 北京市农林科学院植物保护研究所：我所获批4个微生物新农药登记证书
3. MARA · Approved biological pesticide labels, Announcement No. 954
4. UC IPM — *Botryosphaeria* Dieback / Grape

Product information and technical support

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