

THE BIOMYR BIOSOLUTION

A natural basic substance based on chitosan, as a 100% water-soluble powder.

Chitosan hydrochloride, 100% water-soluble powder.

Basic substance – Reg. (EU) No 563/2014 (framework: Reg. (EC) No 1107/2009).

Elicitor of plant defence mechanisms.

For professional users only.

FT-VEYER-2026-001 · v1.3 · EN

◆ THE PROMISE

Strengthen the crop's natural defences.

Basic substances derived from biopolymers, serving a professional and responsible agriculture. Less pathogen pressure, a more serene crop management.

Circular economy

From biowaste to biosolution



◆ DUAL ACTION

A plant that defends itself better, a pathogen that spreads less.

◆ ELICITOR

VÉYÈR stimulates the plant's natural defences by activating its own protective mechanisms.

◆ FUNGISTATIC & BACTERIOSTATIC

Through a barrier effect and defence activation, VÉYÈR helps slow the development of certain fungal and bacterial pathogens.

◆ THE MATERIAL

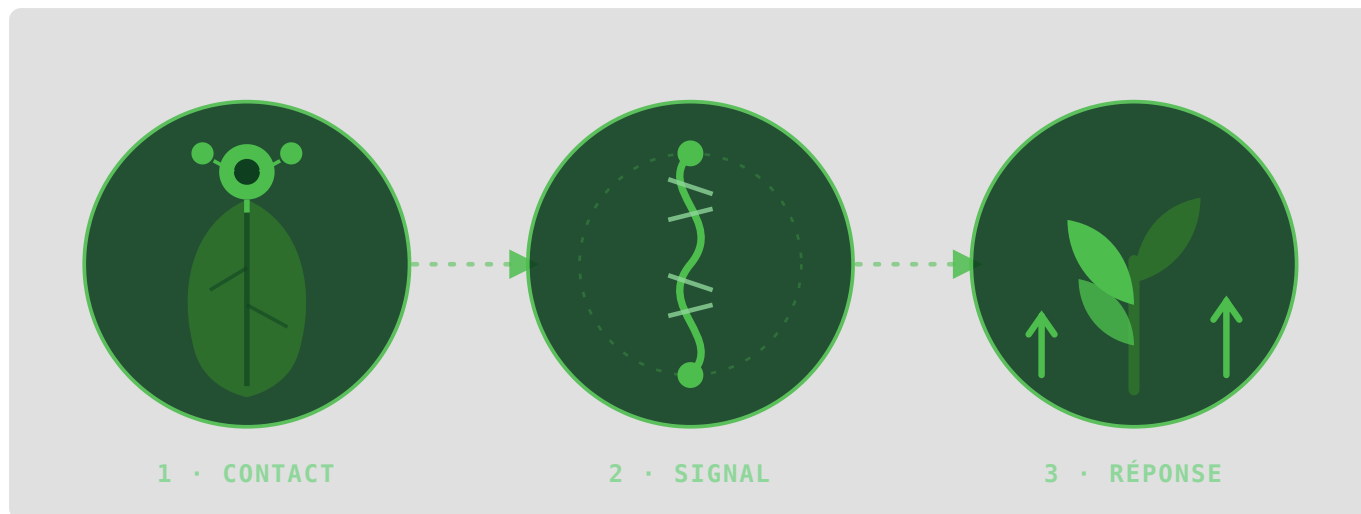
A basic substance derived from chitin

VÉYÈR is made of chitosan hydrochloride, a natural derivative of the chitin found in the exoskeleton of arthropods. A 100% water-soluble powder, specified for agricultural performance.



◆ ACTION 1 • ELICITOR

The plant activates its own defences

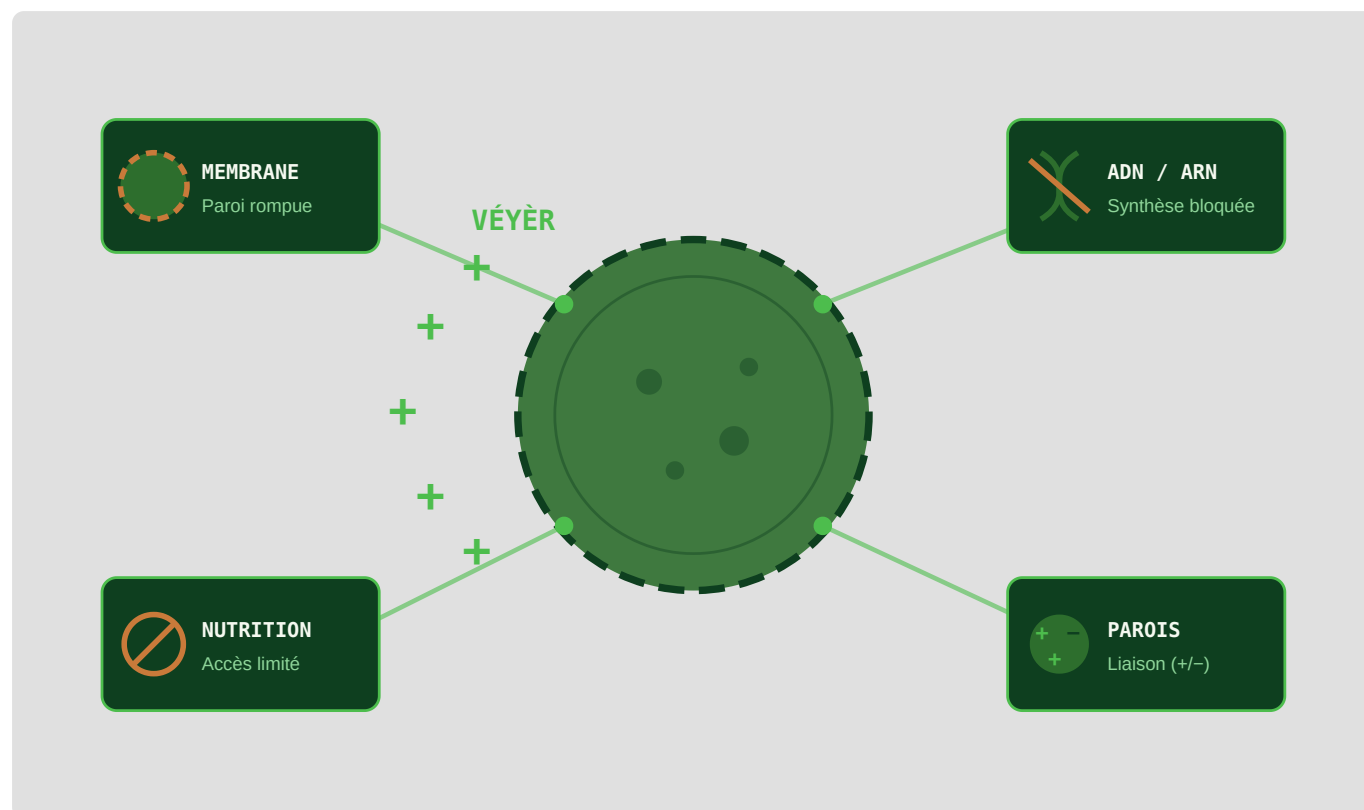


- 1 Recognition**
VÉYÈR's chitosan is recognised by receptors at the surface of the plant.
- 2 Transmission**
The signal travels inside the plant and activates its defence systems.
- 3 Response**
Chlorophyll levels, growth hormones and immune-system molecules increase.

◆ ACTION 2 • FUNGISTATIC

Chitosan acts directly on the pathogen

Chitosan hydrochloride is a polycationic polymer. Its fungistatic effect operates at several levels on pathogenic fungi.



◆ **Membrane damage**

Disruption of the pathogen's membrane and cell wall.

◆ **DNA / RNA inhibition**

Blocking of DNA and messenger-RNA synthesis.

◆ **Restricted nutrition**

Limiting the fungus's access to nutrients.

◆ **Cell-wall binding**

Binding to negatively charged cell walls.

◆ TARGET PATHOGENS

What research documents on chitosan

Activity reported in the scientific literature. This body of work informs agronomic reasoning; it is not a claim of curative efficacy.



Powdery mildew

Erysiphe, Podosphaera, Leveillula

Cucurbits, tomato, vine

HIGH CONFIDENCE

Reference rate 1-2 g/L



Anthracnose

Colletotrichum spp.

Mango, vanilla, pineapple, chilli

HIGH CONFIDENCE

Reference rate 1-2.5 g/L



Grey mould

Botrytis cinerea

Strawberry, tomato, vine

HIGH CONFIDENCE

Reference rate 1-1.5 g/L



Yellow sigatoka

Pseudocercospora musae

Banana

TO CONFIRM IN FIELD

Reference rate 0.5-1.5 g/L



Fusarium wilt

Fusarium oxysporum

Tomato, cucumber, banana

TO CONFIRM IN FIELD

Reference rate 0.5-2 g/L



Bacterial diseases

Ralstonia, Xanthomonas

Solanaceae, citrus

TO CONFIRM IN FIELD

Reference rate 0.5-1 g/L

Reported mechanisms: pathogen membrane disruption, inhibition of spore germination, protective surface film, activation of plant defences. Source: BIOMYR synthesis (2026) across 11 phytosanitary problems, 40+ published references.

◆ KEY STRENGTHS

What VÉYÈR brings to your crop programme

◆ PURITY & TRACEABILITY

Origin and manufacturing controlled end to end, certificate of analysis per batch.

◆ VEGETATIVE VIGOUR

A favourable effect on vigour, alongside its protective action.

◆ BROAD SPECTRUM, MULTI-CROP

Vegetables, field crops, orchards, ornamentals.

◆ ORGANIC & CONVENTIONAL

Compatible with both farming systems.

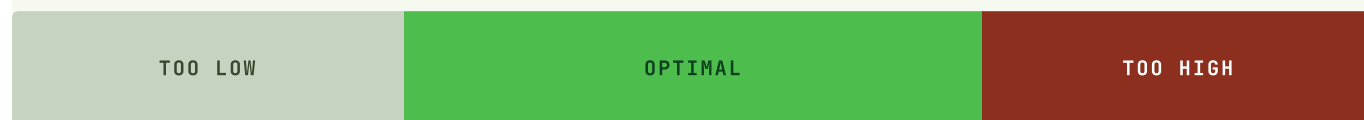
◆ BIODEGRADABLE BIOPOLYMER

A biocompatible substance derived from biopolymer valorisation.

◆ CRITICAL POINT

The effect depends on the dose

Like any agronomic input, VÉYÈR has an effective window. Falling outside it — either way — costs you.



■ INSUFFICIENT DOSE

Limited effect, under the action threshold. The application is wasted.

■ OPTIMAL DOSE

The intended beneficial range, in line with the stated doses.

■ EXCESSIVE DOSE

Risk of phytotoxicity. Never exceed the maximum stated dose.

Never make up for a missed application window by increasing the dose.

◆ OUR TRIALS

Field monitoring in Réunion



Tomato trial · Réunion · 2026 — soluble fertiliser alone vs soluble fertiliser + VÉYÈR

Démonstration expérimentale de VéYèr sur la production de piment vert



Green chilli demonstration — conventional plot vs VÉYÈR plot

TOMATO • 2026

COMPARATIVE MONITORING

A plot under soluble fertiliser alone compared with a plot under soluble fertiliser + VÉYÈR.

GREEN CHILLI • 2026

EXPERIMENTAL DEMONSTRATION

A conventionally grown plot compared with a VÉYÈR demonstration plot.

STRAWBERRY, AUBERGINE • 2026

COMPARATIVE MONITORING

Plots with and without VÉYÈR run side by side at several growers.

Protocols and detailed results at biomyr.com > Resources > Trial results.

◆ INDICATIVE RATES

Benchmarks by crop family

⚠ Safety cap: never exceed 400 g/ha per application, whatever the crop.

Choose your crop



Solanaceae



Brassicas



Lettuces



Cucurbits



Tubers



Vine



Alliums



MAP & Ornamentals



Forage & Cereals



Fruits · Post-harvest

◆ CATALOGUE BY CROP

Solanaceae

Tomato

BBCH 09-79

KEY WINDOWS

Vegetative growth

Pre-flowering

Fruit set

Rate
0.3-1.0 g/L

Volume
300-400 L/ha

Applications
2-6 / cycle

Max per application
≤ 400 g/ha

Chilli / Pepper

BBCH 09-79

KEY WINDOWS

Vegetative growth

Pre-flowering

Rate
0.3-1.0 g/L

Volume
300-400 L/ha

Applications
2-6 / cycle

Max per application
≤ 400 g/ha

Short weekly window possible under high pressure.

Aubergine

BBCH 09-79

KEY WINDOWS

Vegetative growth

Pre-flowering

Fruit set

Rate
0.3-0.6 g/L

Volume
300-600 L/ha

Applications
2-6 / cycle

Max per application
≤ 400 g/ha

◆ CATALOGUE BY CROP



Brassicas



Cabbage, cauliflower, broccoli, pak-choi

BBCH 09-79

KEY WINDOWS

Post-transplant

Pre-button

Head formation

Rate

0.25-0.8 g/L

Volume

300-500 L/ha

Applications

2-4 / cycle

Max per application

≤ 400 g/ha

◆ CATALOGUE BY CROP



Lettuces



Lettuce

BBCH 09-79

KEY WINDOWS

Vegetative growth

Water-stress management

Rate

0.25-0.8 g/L

Volume

300-500 L/ha

Applications

2-4 / cycle

Max per application

≤ 400 g/ha

Short window under water stress.

◆ CATALOGUE BY CROP

Cucurbits

Cucumber, courgette, melon

BBCH 09-79

KEY WINDOWS

Vegetative growth

Flowering

Rate
0.25-0.8 g/L

Applications
2-3 / cycle

Volume
300-500 L/ha

Max per application
≤ 400 g/ha

◆ CATALOGUE BY CROP

Tubers

Potato

BBCH 09-79

KEY WINDOWS

After planting

Vegetative growth

Tuberisation

Rate
0.5-1.0 g/L

Volume
200-400 L/ha

Applications
≤ 8 / cycle

Max per application
≤ 400 g/ha

Sweet potato

BBCH 09-79

KEY WINDOWS

Stem onset

Early bulking

Rate
0.5-1.0 g/L

Volume
200-400 L/ha

Applications
≤ 8 / cycle

Max per application
≤ 400 g/ha

Cassava

BBCH 09-79

KEY WINDOWS

Vegetative (1-2 MAP)

Early bulking (3-5 MAP)

Rate
0.5-1.0 g/L

Volume
200-400 L/ha

Applications
≤ 8 / cycle

Max per application
≤ 400 g/ha

⚠ Specific cap: do not exceed 0.25 g/L on cassava.



Taro

BBCH 09-79

KEY WINDOWS

3-5 leaves

Pre-bulking corms

Rate

0.5-1.0 g/L

Applications

≤ 8 / cycle

Volume

200-400 L/ha

Max per application

≤ 400 g/ha



Beetroot

BBCH 09-79

KEY WINDOWS

Vegetative (4-8 leaves)

Root swelling (pre-harvest)

Rate

0.5-1.0 g/L

Applications

≤ 8 / cycle

Volume

200-400 L/ha

Max per application

≤ 400 g/ha

◆ CATALOGUE BY CROP



Vine



Grapevine (Vitis vinifera)

BBCH bud break → fruit set

KEY WINDOWS

Bud break

Pre-flowering

Flowering

Fruit set

Rate

0.5-1.0 g/L

Applications

≤ 8 / cycle

Volume

200-600 L/ha

Max per application

≤ 400 g/ha

Stop before full veraison.

◆ CATALOGUE BY CROP



Alliums



Onion

BBCH 09-79

KEY WINDOWS

4-6 leaves

Bulb initiation

Bulking

Rate

0.5-1.0 g/L

Volume

200-400 L/ha

Applications

≤ 8 / cycle

Max per application

≤ 400 g/ha

Stop after neck-fall.



Garlic

BBCH 09-79

KEY WINDOWS

20-30 DAT

40-55 DAT

65-80 DAT

Rate

0.5-1.0 g/L

Volume

200-400 L/ha

Applications

≤ 8 / cycle

Max per application

≤ 400 g/ha



Spring onion

BBCH 09-79

KEY WINDOWS

3-5 leaves

Pre-cut (D-10 to D-14)

Rate

0.5-1.0 g/L

Volume

200-400 L/ha

Applications

≤ 8 / cycle

Max per application

≤ 400 g/ha

◆ CATALOGUE BY CROP



MAP & Ornamentals



Rose geranium

BBCH 09-89

KEY WINDOWS

Regrowth after pruning

Pre-bud

Rate

0.2-1.0 g/L

Volume

200-400 L/ha

Applications

≤ 8 / cycle

Max per application

≤ 400 g/ha



Cut flowers & ornamentals

BBCH 09-89

KEY WINDOWS

Regrowth after pruning

Pre-bud

Rate

0.2-1.0 g/L

Volume

200-400 L/ha

Applications

≤ 8 / cycle

Max per application

≤ 400 g/ha

Preservation context.

◆ CATALOGUE BY CROP

Forage & Cereals

Forage / Grassland

BBCH 09-79

KEY WINDOWS

Regrowth after cutting

Establishment

Rate
0.5-1.0 g/L

Applications
≤ 8 / cycle

Volume
200-400 L/ha

Max per application
≤ 400 g/ha

Cereals / Oilseeds

BBCH 09-79

KEY WINDOWS

Tillering

Stem extension

Flag leaf

Rate
0.5-1.0 g/L

Applications
≤ 8 / cycle

Volume
200-400 L/ha

Max per application
≤ 400 g/ha

◆ CATALOGUE BY CROP



Fruits • Post-harvest



Pineapple

PROTOCOL

Prepare the solution at 0.5–2 g/L

Dip for 60 seconds maximum

Air-dry

Rate

0.5–2.0 g/L

Applications

1 application

Dip

Dip 60 s max

Post-harvest dip application. Single application.

◆ CATALOGUE BY CROP

Crops under evaluation

SUGARCANE — REGULATORY WORK IN PROGRESS

Sugarcane is not listed in the current conditions of use for the basic substance. Work is under way with the sector to open this line. No use on sugarcane until the framework is established.

LYCHEE, VANILLA — TRIALS UNDER WAY

Crop sheets published as results come in.

◆ QUALITY & TRACEABILITY

High purity, controlled batch by batch

DDA > 85%

High deacetylation index, ensuring optimal charge and solubility.

High purity

Approved basic substance — Reg. (EU) No 563/2014 (chitosan hydrochloride).

Certificate per batch

Every batch comes with a certificate of analysis.

Controls

Solubility, residual moisture and absence of heavy metals verified.

◆ DIRECTIONS FOR USE

Six rules worth respecting

1

WATER PH

Target 5.5 to 7.0. Above 8, dissolution and efficacy drop.

2

AGITATION

Shake well before use. No need to keep agitating during application.

3

NOZZLES

Cone or fine-to-medium droplets. Wet the leaf without run-off.

4

TIMING

Early morning or late afternoon. Avoid wind above 3 Beaufort and high heat.

5

WEATHER

Allow 2 to 3 hours without rain after spraying.

6

JAR TEST

Mandatory before any tank mix, especially copper, zinc, oils and concentrated fertilisers.

◆ SAFETY

Handling and storage

◆ CLASSIFICATION

Not classified as hazardous under CLP. Dust may irritate eyes, skin and airways.

◆ PPE

Goggles, nitrile gloves, P2 mask, suitable workwear. Ventilated area.

◆ STORAGE

Dry place, airtight container, away from moisture and heat.

◆ WASTE

Dispose of in line with local regulations and collection channels.

Professional use only. Always read the label and product information before use.

◆ THE BIOMYR OFFER

Four disciplines at the service of your plot

VÉYÈR Chitosan-based basic substance.

DIGITAL AGRONOMY Digitised field monitoring with the Vélyèr CIEL app.

ENGINEERING & STUDIES Technical & financial studies, R&D.

BIOMYR ACADEMY Training and skills transfer.

THE BIOMYR VALUE CHAIN, RECOGNISED



Innov'Alo 2025 winner

French technology-transfer platform contest, with the EcoBiotek PFT.



Start category winner • Innovation Outre-Mer 8

Award granted to the Antomotech project.



3rd prize • Pépite Territorial 2024

Student entrepreneurship contest.

Awards recognising BIOMYR's innovation and engineering approach, not the VÉYÈR product itself.

◆ LET'S TALK

Our team assesses your plot and objectives before any intervention.

Get in touch →

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SAS BIOMYR, share capital €1,000 · SIRET 934 986 761 00013 · Innovate. Develop. Collaborate.

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