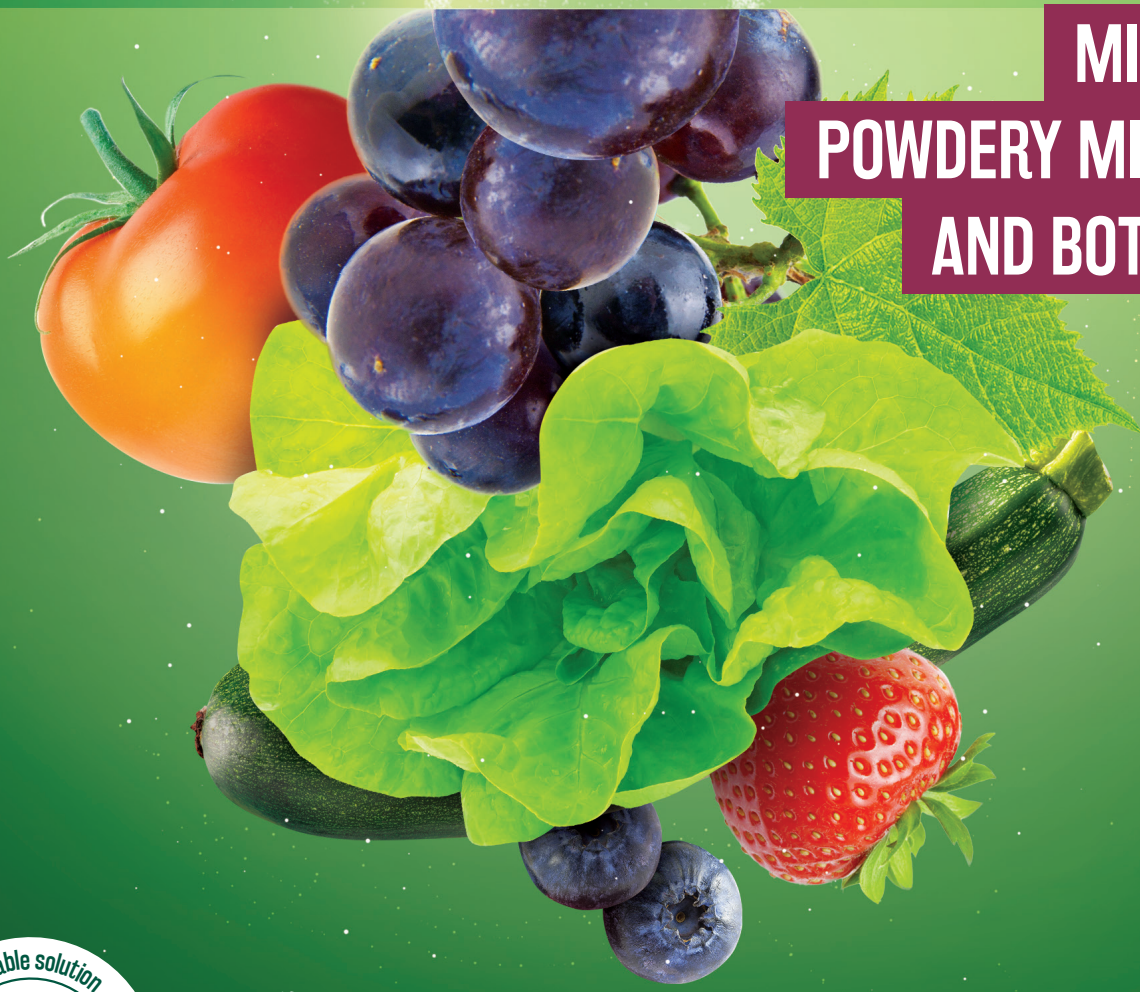




Natural Plant Stimulator to fight against

**MILDEW,
POWDERY MILDEW,
AND BOTRYTIS**



Systemic resistance inducer against foliar fungal diseases : downy mildew, powdery mildew, botrytis, bremia, apple scab, fire blight, monilinia.

Romeo is a product containing the active ingredient Cerevisane®. The active is the cell wall of the yeast **Saccharomyces cerevisiae strain LAS117**. Cerevisane induces internal preventive plant defense mechanisms against key diseases : downy mildew, powdery mildew and botrytis.



PRODUCT IDENTITY



Composition
94.1% a.i. Cerevisane®
patented by Lesaffre
R&D in 2006



Non living, can be easy use in tank mix with chemicals



Compatible with **organic farming and conventional**



Formulation :
Wettable Powder (WP)



Resistance Management



Preventive Foliar application



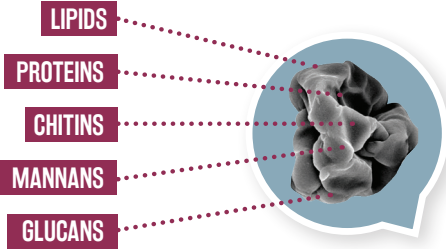
Approval EU on the 23/04/2015 for **15 years**. Listed in annex of Regulation 540/2011 as a low risk substance. EPA approval since 2018/09/10



No **Maximum Residue Levels** (UE Annex IV of Regulation EC 396/2005) MRL exemption for USA (Federal Register /Vol. 83, No. 154 / Thursday, August 9, 2018)



Application at low dose rate
Re-Entry Interval = 4h
Pre-Harvest Interval = 0h



Cerevisane® structure, microscopic picture (SEM), source : Agrauxine by Lesaffre Plant Care

Plant protection against broad spectrum fungal diseases

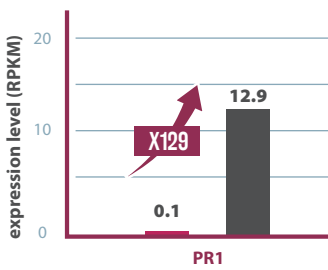


MODE OF ACTION

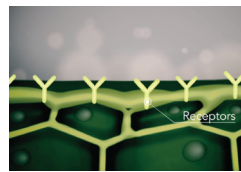
Expression level of PR1 gene (RPKM)
1 day after application of Romeo

UTC ROME0

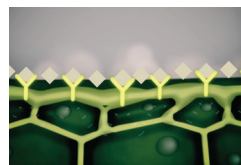
PR1 is a marker gene of the defense pathway dependent on **Salicylic Acid (SA)**



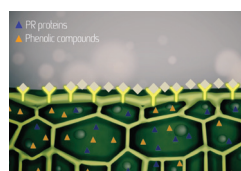
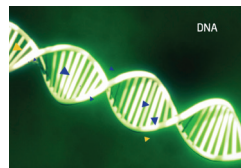
Mimics a microbial attack perception by the plant



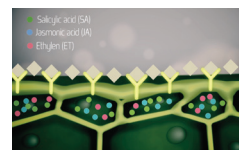
Activation of cell signaling cascade



Induction of defense genes



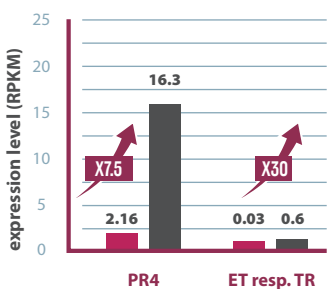
Metabolic changes = effective defenses



Expression level of PR4 and ET resp. TR genes (RPKM)
1 day after application of Romeo

UTC ROME0

PR4/ET resp. TR are marker genes of the defense pathway dependent on **Jasmonic Acid (JA) and Ethylene (ET)**



- Preventive, foliar spray
- Effective 1 day after application



Internal colonisation of *Erysiphe necator* (powdery mildew)

Internal colonisation of *Plasmopara viticola* (downy mildew) 7 days after inoculation

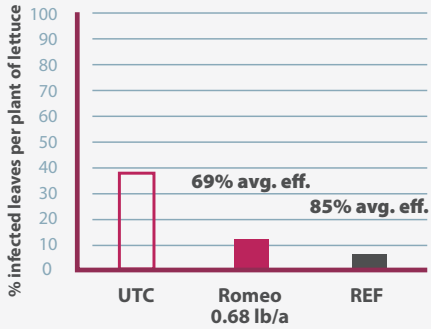
Source : INRA Dijon (France)

TRIALS RESULTS



Product developed for a long period of time in many countries

Lettuce - Downy Mildew - 9 GEP greenhouse trials from 2010 to 2015 in FR, IT, ES, DE - average efficacy %

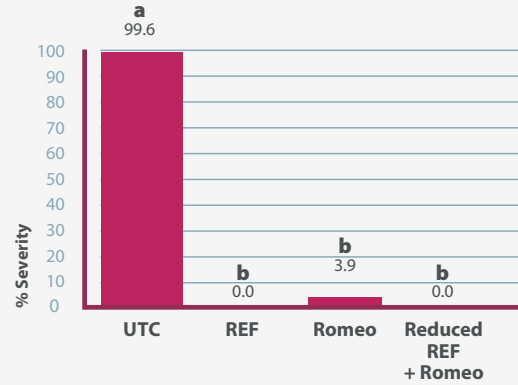


4-7 foliar applications, every 7-14 days at 40-100 GPA



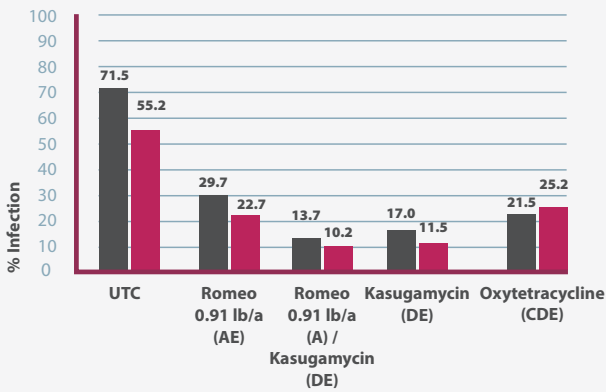
Grapevine - Powdery Mildew

USA, CA 2019 - Severity %
Assessment date: 07/16/2019 (14 DAG)
8 applications per treatment

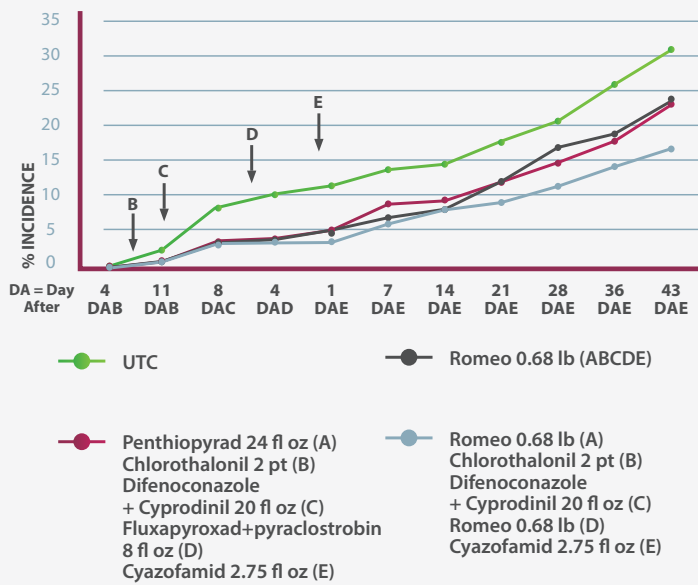


Apple BLOSSOM and SHOOT blight - USA - 2019 % infection - Michigan

● % BLOSSOM infection
● % SHOOT infection

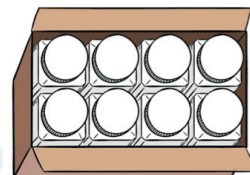


Tomatoes - Powdery Mildew USA, CA - 2020 Incidence %



PRODUCT PACKAGING

> 2Lbs per bottle
> 8 bottles per box



**CROPS
AND PESTS**



Crops	Diseases	Application Rates
GRAPEVINE AND TABLE GRAPES	Powdery mildew Downy mildew Botrytis cinerea	0.23 lb/a
LEAFY VEGETABLES AND LETTUCE	Downy mildew Botrytis Rhizoctonia	0.45-0.68 lb/a
CUCURBIT VEGETABLES	Powdery mildew Downy mildew Botrytis	0.45 lb/a
FRUITING VEGETABLES TOMATO, PEPPER	Powdery mildew Downy mildew Botrytis cinerea	0.45-0.68 lb/a
BERRIES AND SMALL FRUITS	Powdery mildew Botrytis cinerea Downy mildew	0.45-0.68 lb/a
ROOT AND TUBER VEGETABLES	Powdery mildew Alternaria	0.45-0.68 lb/a
STONE FRUITS	Powdery mildew Alternaria Botrytis Brown rot/Blossom blight Phytophthora	0.23-0.91 lb/a
POME FRUITS	Apple Scab Fire blight Powdery mildew Botrytis Alternaria	0.23-0.91 lb/a
TREE NUTS	Botrytis Alternaria Brown rot/Blossom blight	0.23-0.91 lb/a

For more information
and news, visit our website :

Agrauxine.us

