



Eco-77®

Reg. No. L7495, Act No. 36 of 1947

Biomanagement



Andermatt
Madumbi



Eco-77®

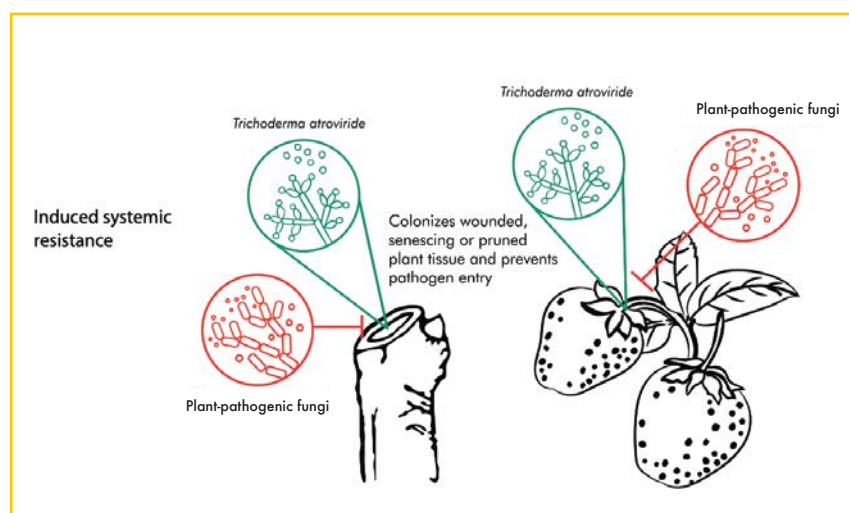
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A biofungicide for the protection of pruning wounds on grape vines against *Eutypa* and for the suppression on *Botrytis* on crops as specified.

Why use *Eco-77*®?

Features	Benefits
A strain of <i>Trichoderma</i> specifically isolated from above ground plant parts in South Africa	Well adapted to local above ground conditions and can survive and grow in these environments
Isolated from commercial vineyards.	With the original isolate coming from commercial vineyards, which had been treated with conventional chemical spray programs, the isolate in <i>Eco-77</i> ® shows some surprising compatibilities with chemical inputs e.g. elemental sulfur (a further list of compatible chemical actives is available through your local representative
Grows and colonizes surfaces of wounds	Provides long term preventative control on wound surfaces. In grape pruning wounds <i>Eco-77</i> ® could still be isolated a year after application
High spore concentration, spore viability and formulation stability	Good efficacy and consistent performance of the product when applied correctly

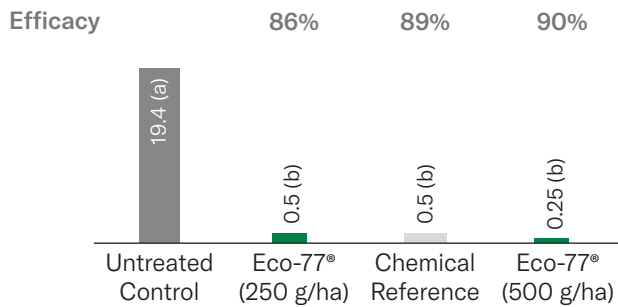
Mode of Action:



Eco-77® contains a wettable powder formulation of the fungus *Trichoderma atroviride* strain 77B, isolated from grapes in the Western Cape. The strain is well adapted to local South African conditions and is very persistent.

Eco-77® offers a low cost, preventative control option for wound and pruning disease control.

Botrytis severity (%) on grape bunches

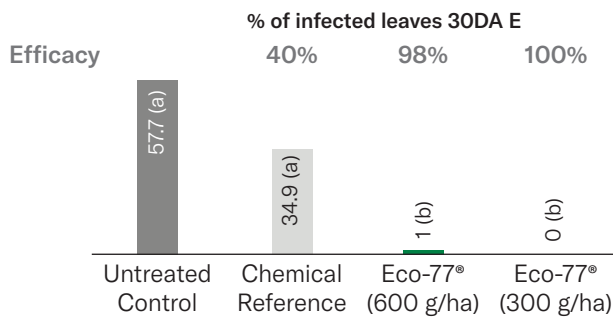


Eco-77[®] treated grapes. *Botrytis* infection was minimal.



Standard chemical treatment. *Botrytis* infected grapes can be clearly seen.

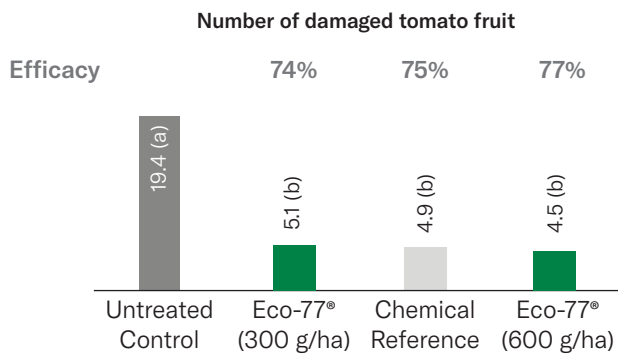
Sclerotinia on tomatoes (Canada, 2017)



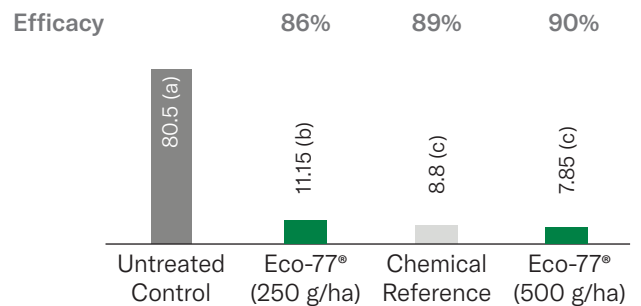
Sclerotinia progressed rapidly in this trial in the control and it was a stark contrast to the *Eco-77*[®] treated plots. This result was very surprising for FarmForest as we have never seen a biological as effective in controlling these diseases in the greenhouse. Indeed, while most biologicals are seen to suppress fungal diseases this product actually controlled them at least in this trial.

(Comment by Trialist at FarmForest in Canada)

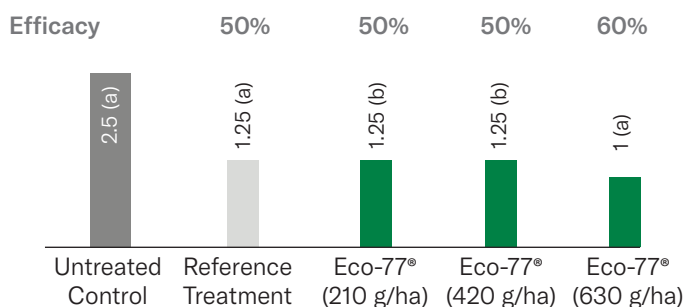
Botrytis cinerea on tomatoes (Canada, 2017)



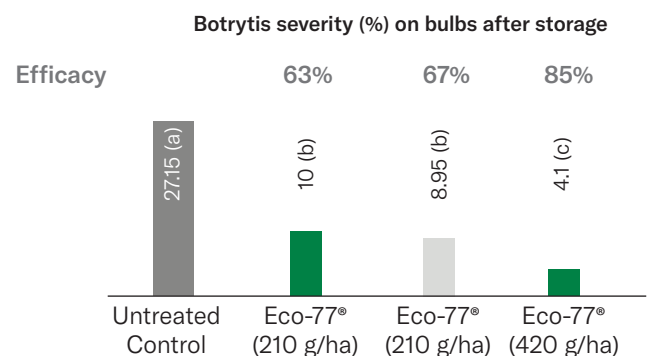
Botrytis severity (%) on onion leaves



Number of unmarketable bunches (Onion)



Effect of treatment on Botrytis severity



Registered uses:

Crop	Method	Dose rate
Eutypa Grape vine pruning wounds	Apply at a rate of 50 g per 100 litres of water.	Apply as a directed spray onto each pruning wound immediately after pruning.
Botrytis Tunnel or greenhouse tomato and cucumber	Apply at a rate of 50 g per 100 litres of water or 250 - 500 g/ha.	Apply as a full cover spray when disease is first noticed. Repeat as needed.
Botrytis Table grapes	Apply at a rate of 250 – 500 g/ha.	First application at full flowering, repeat at pea-berry, veraison and 7 days pre-harvest.
Botrytis Onions	Apply at a rate of 250 – 500 g/ha.	First application at onset of bulbing, repeat at onset of leaf fall, subject to disease incidence or severity.

Available in: 250 g, 1 kg, 5 kg

MIXING AND APPLICATION INSTRUCTIONS

- Mix at a rate of 50 g/100 L water and apply sufficient volume to obtain full cover of the foliage. If water volume exceeds 1000 litres per ha, apply a maximum of 500 g per ha. Refer to **REGISTERED USAGES** table for further dosage instructions.
- Do not mix in containers that have previously been used for toxic substances.
- Wash mixing containers well with soap and water before use.
- Preferably apply the product when humidity is high, preferably in the late afternoon.
- Good spray coverage is essential.
- Shake or stir the product mixture frequently during use to avoid settling out of the product.
- Do not apply when temperatures are below 15 °C or above 35 °C.
- Avoid pH extremes (less than 3 or higher than 8).
- Used, researched and trusted
- Non-toxic
- Suitable for organic use (EcoCert certified)
- Friendly to beneficials ie. Ladybirds, parasitoid wasps, lacewings, bees, earthworms, birds, fish and daphnia
- No withholding period or maximum residues (MRL)

Marketed and Distributed by:



Certified by:



Inspected by ECOCERT SA
F-32600
Product suitable for use in organic agriculture complying to the annexes of the (EC) regulation n° 834/2007 and 889/2008 and NOP regulation.

Manufactured and Registered by:



Healthy Food and Healthy Environment, for all



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