

CheckMate® VMB-XL

for Vine Mealybug (VMB)

Datasheet



Effective Pheromone Release Technology for Vine Mealybug Control

CheckMate® VMB-XL for Vine Mealybug Control

CheckMate® VMB-XL is a mating disruption dispenser for control of Vine Mealybug (VMB) in grapevines.

This easy-to-deploy product releases the sex pheromone of the Vine Mealybug pest continuously throughout the vineyard, reducing the adult males' ability to find females. This disrupts the mating cycle and serves to reduce pest populations.

CheckMate® VMB-XL utilizes Suterra's proprietary release technology and is compatible with all IPM tools. It can be used in organic production and is harmless to all other living organisms, including beneficial insects.

Features & Benefits

- Easy to Deploy: Apply once per season
- Compatible with all IPM tools
- Can be used in organic production
- Can be used together with CheckMate® VMB-F
- Compatible with beneficial insects
- Low worker exposure risk
- No pre-harvest interval
- Can be stored at room temperature

CheckMate® VMB-XL Facts Table

Target pest	Vine Mealybug <i>(Planococcus ficus)</i>
Crop registrations	Raisin grapes, table grapes, and wine grapes
Monitoring and Scouting	<p>Look through your vineyard for honeydew and ant activity on vines</p> <p>Monitor mating disruption effectiveness using small paper delta traps with sex pheromone lure</p> <p>Hang traps in March to detect early activity</p> <p>1 trap per 10-20 acres; at least 2 traps per block</p> <p>Hang at cordon height</p> <p>Check traps weekly, replacing lures every 4 weeks</p> <p>Replace trap bottoms as needed to ensure stickiness</p>
Vine mealybug damage	<p>Decreased vine vigor, defoliation and grape cluster damage</p> <p>Sooty mold damage on grapes due to honeydew production results in quality loss and unmarketable fruit</p> <p>Spread of leafroll virus</p>

For more information call: +1 541.388.3688 email: agsales@suterra.com visit: www.suterra.com



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CheckMate® VMB-XL

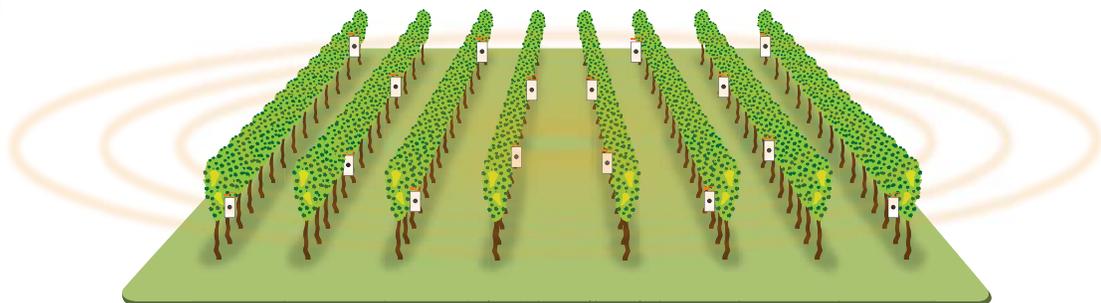
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Application Overview

- Distribute throughout the vineyard according to the hang pattern
- Hang dispensers at the cordon wire or the base of the canes
- Hang in a shady location



Vine Mealybug Trap Inhibition

Grapevines

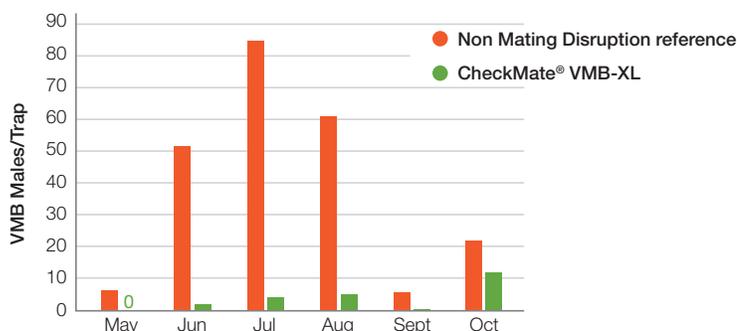
CheckMate® VMB-XL hindered the ability of males to find pheromone traps as compared to the untreated areas over the identical time period.

Damage Reduction

Grapevines

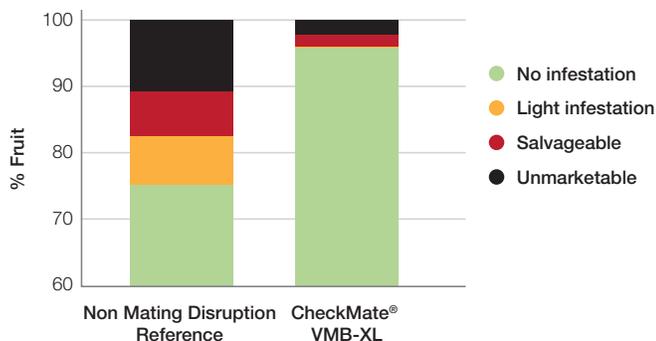
CheckMate® VMB-XL shows a sizeable reduction in infested bunch clusters as compared to the untreated areas over the identical time period, and a 40% - 50% improvement in the percentage of harvestable fruit.

VMB Trap Inhibition



California, USA and Spain grapevine trials 2014 - 2016

VMB Damage Reduction



California, USA and Spain grapevine trials 2014 - 2016

Vine Mealybug Identification

(*Planococcus ficus*)



Vine Mealybug colony on grapevine branch



Vine Mealybug

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