



## Evaluation Report for Category C, Subcategory 3.11 Application

**Application Number:** 2010-5236  
**Application:** New or Changes to Product Labels – New Pests (C.3.11)  
**Product:** Vectolex CG Biological Larvicide  
**Registration Number:** 28008  
**Active ingredients (a.i.):** *Bacillus sphaericus* Strain 2362,  
**PMRA Document Number English PDF:** 2040894

### Background

Vectolex CG is a mosquito larvicide registered for use in a variety of water bodies for control of a variety of mosquito species.

### Purpose of Application

The purpose of the application is to amend the Vectolex CG Biological Larvicide label by adding a control claim for the cattail mosquito, *Coquillettidia perturbans* in certain water bodies.

### Chemistry Assessment, Health and Environmental Assessment

A chemistry assessment was not required since there was not change to the product chemistry. Health and environmental assessments were not required since the use pattern and application rates of the component product remained unchanged.

### Value Assessment

Submitted efficacy data demonstrated that applications of Vectolex CG Biological Larvicide may reduce larval populations in freshwater marshes, the effect of which may not be evident until three weeks after treatment. From a value and sustainability perspective, sufficient information has been provided to support the use of Vectolex CG Biological Larvicide for reduction of *Coquillettidia perturbans* larvae in listed freshwater bodies at a rate range of 8-16.8 kg product/ha. The higher rate is supported in water polluted with sewage, water with high organic content and water with a high level of suspended solids. The minimum reapplication interval is 2 weeks; however, reapplication should be based on larval monitoring.

### Conclusion

PMRA has completed an evaluation of the subject application and has found the information adequate to support the addition of *Coquillettidia perturbans* in certain freshwater bodies to the Vectolex CG Biological Larvicide label at an application rate of 8-16.8 kg product/ha and a minimum reapplication interval of 2 weeks based on larval monitoring.

## References

- 820294 Efficacy between VectoLex CG and VectoLex WDG against larvae of Coquillettidia perturbans in a cattail marsh in Cape May, NJ Benzon Research, Study No. AB012, Not GLP, not published, DACO: M10.2.2
- 820297 Efficacy of VectoLex CG against Coquillettidia perturbans in the Great Cedar Swamp, Plymouth County Mosquito Control District. VBC exsum No. 5327, DACO: M10.2.2
- 820299 Efficacy between VectoLex CG against larvae of Psorophora ferox, Aedes vexans, Anopheles quadrimaculatus, Culex salinarius and Coquillettidia perturbans in the field Benzon Research, Study No. AB003, Not GLP, not published, DACO: M10.2.2
- 1568711 DACO: 10.2.3
- 1975793 DACO M10.3 waiver, DACO: 10.3
- 1975794 Data\_summary\_VectoLex\_CG\_against\_Coquillettidia\_perturbans, DACO: 10.2.3.1
- 1975795 Evaluation\_of\_Vectolex\_CG\_against\_Coquillettidia\_perturbans, DACO: 10.2.3.3
- 1975796 Merritt Bs Wisconsin 2005, DACO: 10.4
- 1975797 New Jersey Mosquito Biology and Control\_ Center for Vector Biology., DACO: 10.4
- 1975798 NORTHEASTERN MOSQUITO CONTROL ASSOCIATION DECEMBER 1996., DACO: 10.4
- 1975799 PEPUDU\_Formulaire 6110\_Vectolex vs Coquillettidia perturbans., DACO: 10.4
- 1975800 TRANSMISSION OF EASTERN EQUINE ENCEPHALOMYELITIS VIRUS IN CENTRAL ALABAMA, DACO: 10.4

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