



Evaluation Report for Category B, Subcategory 4.6 Application

Application Number: 2012-1840
Application: Conversion - Submission to fulfill conditions of registration on a product with full registration
Product: Agriphage-CMM
Registration Number: 30301
Active ingredients (a.i.): *Clavibacter michiganensis* (spp *michiganensis*) Bacteriophage (TOM)
PMRA Document Number : 2208535

Background

Agriphage-CMM was first registered on May 2, 2012 for use in use-site category 5 (Greenhouse Food Crops) to suppress bacterial stem canker on greenhouse tomatoes caused by *Clavibacter michiganensis* (subsp. *michiganensis*). Additional data confirming efficacy of seedling treatment and hydroponic treatment against bacterial stem canker (*Clavibacter michiganensis* subsp. *michiganensis*) on greenhouse tomato were required as the conditions of full registration.

Purpose of Application

The purpose of this application was to fulfill the conditions of full registration - efficacy: small-scale trials (field, greenhouse).

Chemistry, Health and Environmental Assessment

As this application was to fulfill the conditions of registration for the value assessment, new chemistry, health and environmental reviews were not required.

Value Assessment

The value deficiencies for the conditions of registration were addressed by efficacy trials and a rationale provided in this application. Three confirmatory trials conducted in the AgQuest greenhouse facility in Minto, MB demonstrated the efficacy of Agriphage-CMM for suppression of bacterial stem canker (*Clavibacter michiganensis* subsp. *michiganensis*) on greenhouse tomato. In these trials, Agriphage-CMM applied at the rate of 12 mL/100 m² significantly decreased disease incidence by 39 - 48% compared to the untreated control under moderate to high disease pressure (disease incidence at 37 - 39%). The efficacy of Agriphage-CMM was statistically equivalent to the commercial standard treatment of Kocide 2000 tank-mixed with mancozeb. Both Agriphage-CMM treatments and the commercial standard substantially increased marketable and total yield compared to the inoculated control. The rate for the hydroponic treatment was not directly tested in the trials; however, a similar

result can be expected based on the rates and plant heights for seedlings and mature plants in greenhouse. No phytotoxicity was observed.

Conclusion

The PMRA has conducted a review of the submitted information and has determined that the conditions of registration have been fulfilled.

References

PMRA#	Reference
2190413	2011, Efficacy and Tolerance of AgriPhage-CMM (bacteriophage) for the control of bacterial stem canker (<i>Clavibacter michiganensis</i> subsp. <i>michiganensis</i>) in greenhouse tomato (<i>Lycopersicon esculentum</i> L).DACO: 10.1, 10.2.3.1, 10.2.3.3, 10.6.
2190410	2010, AAFC Product Efficacy and Crop Tolerance Study Plan; Trial ID: 06-060E-445. DACO: 10.2.3.3, 10.6.
2190411	2010, AAFC Product Efficacy and Crop Tolerance Study Plan; Trial ID: AAFC06-060E-444. DACO: 10.2.3.3, 10.6.
2190412	2010, AAFC Product Efficacy and Crop Tolerance Study Plan; Trial ID: 06-060E-446. DACO: 10.2.3.3, 10.6.

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