



## Evaluation Report for Category B, Subcategory 1.1 Application

**Application Number:** 2021-5677  
**Application:** Changes to TGAI Product Chemistry - New Source Same Registrant  
**Product:** LALGUARD M52 GR  
**Registration Number:** 29147  
**Active ingredient (a.i.):** *Metarhizium brunneum* strain F52  
**PMRA Document Number :** 3395244

### Purpose of Application

The purpose of this application was to amend the microbial end-use product, LALGUARD M52 GR (formerly known as Met52 Granular Bioinsecticide), to add an additional formulating site and to update the taxonomic classification of the active ingredient.

### Product Characterization and Analysis

The data submitted to support the change in taxonomic classification of the active ingredient from *Metarhizium anisopliae* strain F52 to *Metarhizium brunneum* strain F52 is acceptable. Potency and microbial contaminant analysis data on a sufficient number of batches of end-use product (EP) produced at the new formulating site were also submitted and found to be acceptable.

The secondary metabolites cytochloasins, dextruxins and swainsonine were associated with *M. anisopliae* and were assessed at the time of original registration. No additional secondary metabolites were found to be associated with *M. brunneum* or are expected as a result of the minor changes to the manufacturing methods used at the new site.

Although the possibility of endophytic growth and post-application secondary metabolite production under greenhouse conditions has been suggested, the EP has been registered in Canada since 2009 with subsequent expansion to greenhouse grown food crops. There have been no reports of adverse effects associated with *M. anisopliae* strain F52 or *M. brunneum* strain F52 due to occupational exposure in an agricultural setting or due to consumption of treated crops.

### Health, Environmental and Value Assessments

Health, environmental and value assessments were not required for this application.

### Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found it sufficient to support the change in taxonomic classification of the active ingredient and to add a formulating site for LALGUARD M52 GR.

## References

<b>PMRA Document Number</b>	<b>Reference</b>
3280770	2021, Updated Product Chemistry for TAE-001 Technical Bioinsecticide and Taenure Granular Bioinsecticide, DACO: M2.10.1,M2.10.2,M2.9.2,M2.9.3 CBI
3280772	2021, Leland_Ltr_031414, DACO: M2.14
3280773	2021, Met52 Strain name, DACO: M2.14

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