

V. CONCLUSION

5.1. Conclusion

Based on the results of the study conducted, the following conclusions can be drawn:

1. *In vitro* antagonism against the pathogenic bacterium *Xanthomonas* sp. using an antagonistic microbial consortium produced the greatest inhibitory effect compared to single treatments, with an average of 1.3 cm.
2. *In vivo* antagonism resulted in a relatively low intensity of bacterial leaf blight disease in the treatment with the application of antagonistic microbes, but its effectiveness was not significantly different between single treatments and consortium treatments.

5.2. Recommendations

To determine the effectiveness and interaction of the compatibility between *Bacillus* sp. and *Trichoderma* sp., further research is needed on their application to other plants or their control of other plant diseases, as well as research on compounds that support their compatibility.