

**MÔ HÌNH ỨNG DỤNG CHẾ PHẨM SINH HỌC *Pseudomonas putida*
TRÊN CÂY HỒ TIÊU KINH DOANH TẠI GIA LAI**

**Pilot Application of *Pseudomonas putida* Biological Product
for Black Pepper in Gia Lai**

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Abstract

Pseudomonas putida biological product was not only controlled quick wilt disease (*P. capsici*) but also promoted growth and development of black pepper. In the commercial stage of black pepper, treatment with *P. putida* had lower quick wilt disease occurrence in 2 pilots, moreover, the main stem plant height, fruit-bearing, yield and yield components were higher than that in treatment without *P. putida*. The actual yield of treatments with *P. putida* in 2 pilots were higher than that in treatment without *P. putida*. The higher actual yield in treatments with and without *P. putida* were 282.45 kg and 467.06 kg in pilot 1 and 2, respectively. Using *P. putida* biological product gave much beneficial for farmers growing black pepper. Economic values showed that VCR index in treatments with *P. putida* in 2 pilots were 11.03 and 13.14 respectively.

Keywords: *P. putida* biological product, black pepper, quick wilt disease, growth, development