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Effective Control of Cabbage Black Rot by Validamycin A and Its Effect on Extracellular Polysaccharide-Production of *Xanthomonas campestris* pv. *campestris*

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Abstract:

Foliar sprays of validamycin A (VMA) controlled cabbage black rot effectively in pot and field trials. In a pot test, VMA reduced the number of *Xanthomonas campestris* pv. *campestris* (*Xcc*) in leaves. VMA inhibited the production of extracellular polysaccharide (EPS) on yeast-peptone (YP) agar containing carbohydrates. Injection of EPS from *Xcc* on medium containing VMA produced fewer lesions than that without VMA. These results suggested that VMA might inhibit the multiplication of *Xcc* in plants and affect the quantity and quality of EPS. © Pesticide Science Society of Japan

Keywords:

disease control, validamycin A, soilborne disease, *Xanthomonas campestris* pv. *campestris*, cabbage black rot, extracellular polysaccharide



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