

## COVER LETTER

Title : Production and purification of recombinant coat protein of *Sugarcane mosaic virus* from Indonesian isolate as antigen for antibody production

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This study is a part of Sugarcane Mosaic Virus research project which aim to obtain detection method of sugarcane mosaic disease based on specific and sensitive immunodiagnosis. This research is important because sugarcane mosaic disease has spread to several districts in East Java with disease incidence up to 78% (Addy, *et al.*, 2017). Therefore, diagnosis for viral diseases must be quickly enforced so that appropriate disease control management can be determined. However, there have been no scientific reports on SCMV strains of Indonesia. So it is necessary to conduct preliminary research to obtain Indonesian SCMV strains, as a raw material for antibodies in the immunodiagnosis method of sugarcane mosaic disease. As a raw material for antibodies generation, viruses must be stored in tissues/living organisms, thus molecular cloning is carried out in order to obtain sufficient quantities of samples, high concentrations and stable properties.

This research provides necessary information that is useful for producing large quantities of recombinant protein antigens, with high concentrations and also high purity (low contaminants) as required for proper antigens.

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