SIMULTANEOUS DETECTION OF *Salmonella* sp. IN CONSUMPTION CHICKEN EGGS USING MPN-PCR TECHNIQUE

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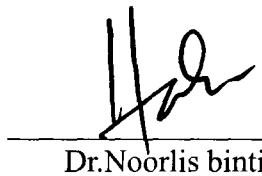
This Final Year Report entitled **"Simultaneous Detection of *Salmonella* Sp. In Consumption Chicken Eggs Using MPN-PCR Technique"** was submitted by Farhani Ahmad, in partial fulfillment of the requirements for the Degree of Bachelor of Science (Hons.) Biology, in the faculty of Applied Sciences, and was approved by



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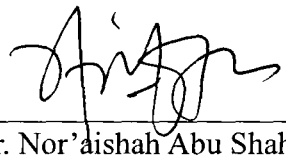

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ABSTRACT

SIMULTANEOUS DETECTION OF *Salmonella* sp. IN CONSUMPTION CHICKEN EGGS USING MPN-PCR TECHNIQUE

Foodborne illness called salmonellosis universally found on fresh product. This study were to determine the prevalence *Salmonella* sp.in farm chicken eggs and free-range chicken eggs in Kuala Pilah, Negeri Sembilan. This study was performed using the Most Probable Number (MPN) and Polymerase Chain Reaction (PCR) method. The prevalence *of Salmonella* sp. in a total of 10 farm chicken eggs and free-range chicken eggs were 20% (1/5) and 60% (3/5) respectively, with estimated values varying from 150 to 1100 MPN/g. The causative factors will be the different ways of chicken's living style and how the eggs were cooked. In addition, abandoning temperature and expiration date will also contribute to the growth of *Salmonella* sp. This study will attract all consumers to become more alert on the biosafety level of their daily diet especially chicken eggs.