ABSTRACT

The aims of this study were to determine the presence of Avian Influenza viruses in fowl on Madura island based on H5 gene amplification using PCR method, to determine how the sensitivity of PCR as molecular diagnostic methods for the review case Avian Influenza in Madura Island, and to know the percentage (%) case of Avian Influenza in Madura Island with once sampling. Samples obtained from the tracheal and cloacal swab on live fowl and the organs of the digestive and the respiratory tract of dead fowl. The samples were inoculated in the embryonated chicken eggs which has specific antibody negative, followed by HA test and PCR test. The results of this study was from 172 fowls. There were eight samples positive for HA test, in which two samples of HA test positive for PCR test with primer amplification of AI H5 subtype. The conclusion are the Avian Influenza virus was detected in poultry such as chicken, chicken, and duck with the H5 gene amplification using RT-PCR method as molecular diagnosis, which can be obtained in Bangkalan and Pamekasan on Madura Island and the percentage (%) of cases of Avian Influenza in Madura Island with a sampling period of 1.1%.

Keywords: H5 Avian Influenza subtype, Madura, PCR