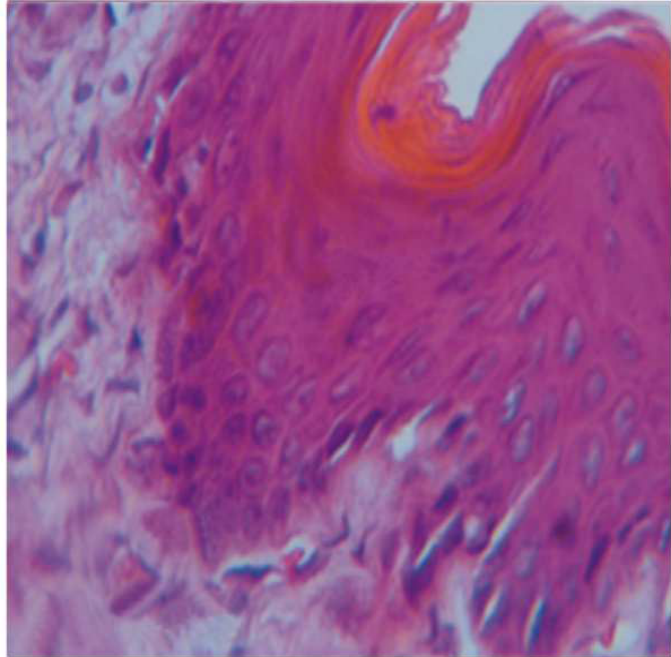


ISSN 1979-1305

VETERINARIA *Medika*



Vet Med | Vol. 4 | No. 1 | Hal 1-86 | Surabaya, Pebruari 2011

**FAKULTAS KEDOKTERAN HEWAN
UNIVERSITAS AIRLANGGA**

Table of Contents

No.	Title	Page
1	Production and Specificity Testing of Monoclonal Antibodies to Bovine Zonna Pellucida 3 Deglycosylated (Mab-bZP3dG) for Woman Immunocontraceptive Vaccine	1 - 4
2	Potency of Crude Spirulina on Protein Efficiency Ratio in Laying Hen	5 - 8
3	H-Y antisera Preparation and X Chromosomal Receptor Tracer as Sex Determination Prototype	9 - 14
4	Erythrocyte's Form Changes in Dog's Blood Smear Before and After the Storage Using Citrate Phosphate Dextrose	15 - 18
5	Avian Influenza H5N1 Vaccine Candidate for Chicken from East Java Isolate Virus	19 - 24
6	Pengaruh Pemberian Antagonis Reseptor N-Metil-D-Aspartat (NMDA) Mk-801 Terhadap Penurunan Sensasi Nyeri Inflamasi pada Mencit Putih (Mus Musculus) Strain Balb/C	25 - 36
7	Exploration Cellulolytic of Bacterium of Rumen Liquid Beef Cattle As Inoculum of Waste Agriculture	37 - 42
8	Respon hMG Toward Ovarium Development In Goat	43 - 48
9	Identification Of Pregnancy Associated Glycoprotein (PAG) From Milk Of Pregnant Dairy Cattle	49 - 52
10	The Role Of Soil As A Helminths Transmitter Around The Habitas of Babirusa	53 - 56
11	Potency of Brown Seaweed (Sargassum duplicatum Bory) Ethanol and Ethyl Acetic Fraction to Malondialdehyde Concentration Decreasing and Histological Retrival of IBD (Inflammatory Bowel Disease) Rat Small Intestinal Jejunum	57 - 64
12	Blood Glucose and Total Blood Protein Profile in Sheep Provided With Lactic Acid Bacteria and Yeast on King Grass and Rice Straw	65 - 70
13	Effect Of Pegagan (Centella Asiatica) Extract in Ovariectomized Wistar-strain Rattus norvegicus On Epithelial Proliferation Of Vaginal Wall	71 - 76
14	Excessive Dose Of Vitamine A On Skeletal Development In The Mice Embryos	77 - 80

Avian Influenza H5N1 Vaccine Candidate for Chicken from East Java Isolate Virus

Kandidat Vaksin Flu Burung H5N1 Bagi Ternak Ayam Isolat Asal Jawa Timur

1. Ernawati, Rahayu --> Fakultas Kedokteran Hewan Universitas Airlangga / rrrnawati@yahoo.co.id
2. Poetranto, E.D --> Mahasiswa Program Doktor Pascasarjana Unair / rrrnawati@yahoo.co.id
3. Hanief R.M --> Mahasiswa Program Magister Pascasarjana Unair / rrrnawati@yahoo.co.id

Abstract

Highly Pathogenic Avian Influenza (HPAI) H5N1 virus is an ongoing public health and socio-economic challenge, particularly in Indonesia. Avian Influenza (H5N1) is now endemic in poultry in many countries, and represents a major pandemic threat. Now, the evolution of H5N1 virus in Indonesia has evolved with genetic variations affecting virulence, drug-resistance, and adaptation to new host species. The reassortment events leading to high genetic diversity in the region, and factors responsible for virus spread. Development of H5N1-specific vaccine may be become a good strategy for the prevention or controlling the spread of AI. This study was aimed to find avaccine candidate for Avian Influenza subtype H5N1 which has a good quality, safe, homolog genetically and antigenically with the virus in East Java. The sample viruses were isolated from village chicken in traditional market at Surabaya, Jombang, Pare, and Kediri. Suspensions in antibiotic solution of cloacal swabs (or organs), taken from village chicken, inoculated into the allantoic cavity of 9 to 11-day-old embryonating chicken eggs. The eggs are incubated at 37°C (range 35–39°C) for 4–7 days. The allantoic fluid of any eggs containing dead or dying embryos during the incubation and all eggs at the end of the incubation period are tested for the presence of haemagglutinating activity by HA and HI test. The presence of Hemagglutinin gene which are common to all influenza A viruses can be confirmed by One Step PCR using 4 pairs of specific primers. Then, the product being purified and sequenced to get the hemagglutinin nucleotide data. The data were analysed for homology relationship. The antigenic test against confirmed antisera panel was conducted to observed the antigenic potential from the isolate. The study results two isolates, Jombang and Pare isolate. The result of this study show that the isolate have a high homology of hemagglutinin gene with another virus isolate (A/chicken/WestJava/Tasiksol/2006) which have wide covered spatial area. The antigenic test showed the same result, but Pare isolate have much wider covered area because it can react with all of antigenic test panel antisera.

Keyword : Vaccine, Avian, Influenza, (H5N1), Chicken, Hemagglutinin, , ,

Daftar Pustaka :

1. **Chen H, G. Deng, Z. Li, G. Tiam, Y. Li, P. Jiao, L. Zhang, Z. Liu, R.G. Webster, and K. Yu., (2004).** The evolution of H5N1 influenza viruses in ducks in Southern China. . United States : Microbiology 101 : 10451-10457
2. **Fouchier, R.A.M., V. Munster, A. Wallenstens, T.M. Bestebroer, S. Hersfst, D. Smith, G.F. Rimmelzwa, (2005).** Characterization of novel influenza A virus hemagglutinin subtype (H16) obtained black-headed gulls. United States : J Virol 79 (5) : 2814-2822
3. **Rantam, F.A., (2005).** Virologi. Surabaya : Airlangga University Press