ABSTRACT

Isolation of *Salmonella* spp in the Ovaries and Eggs from Laying Hens is Given *Lactobacillus acidophilus* Probiotic

Riwayati, K E. I, I, Arief. N. Ulupi

*Salmonellosis* is one of foodborne disease which caused by *Salmonella* infection. An alternative to prevent *Salmonella* infection in laying hens is using probiotics. The aim of this study was to determine the effectiveness of *L. acidophilus* to prevent *Salmonella* spp in the ovaries and eggs from laying hens. Samples taken from the ovaries and egg laying hens which had been treated with probiotic *L. acidophilus* doses 10⁹ cfu/ml and *Salmonella* spp infection is given at a doses 10⁶ cfu/ml. Samples were analyzed by using the *Bacteriological Analitycal Method* (BAM). The results showed that treatment with the *L. acidophilus* probiotic with doses 10⁹ cfu/ml was effective to prevent the emergence of *Salmonella* spp in eggs from laying hens evidenced by the 20th day observation data.

**Keywords:** *L. acidophilus*, *Salmonella* spp, egg, ovarium, laying hens