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Description of Blood Tilapia (Oreocromis niloticus) at High Salinity Fed with Synbiotic Feed

Gambaran Darah Ikan Nila (Oreocromis niloticus) Pada Salinitas Tinggi yang Diberi Pakan Sinbiotik

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ABSTRACT

This study aims to determine the blood profile of saline tilapia (Oreochromis niloticus), which is fed feed containing synbiotics, namely the probiotic bacteria Bacillus subtilis and 1% banana flour prebiotic, to prevent pathogen infection by examining blood picture parameters. This study included four treatments and three replications, treatment of artificial feed with the addition of B. subtilis 10^3 CFU/mL, artificial feed with the addition of B. subtilis 10^5 CFU/mL, artificial feed with the addition of B. subtilis 10^7 CFU/mL, and artificial feed with the addition of B. subtilis 10^9 CFU/mL with the number of samples used as many as 20 birds/treatment—observation of blood picture parameters (hematocrit, hemoglobin, erythrocytes and leukocytes). The number of erythrocytes was $5.53x10^6$ cells/mm^3 in the artificial food treatment with 10^5 CFU/ml B. subtilis, the lowest in the treatment with the addition of 10^3 CFU/ml B. subtilis. ml, ie $3.53x10^5$ cells/mm^3. The highest leukocyte count was achieved in treatment with B. subtilis supplement 10^9 CFU/mL, $2.74x10^4$ cell/mm^3. The value of the hematocrit level of saline tilapia is in the same range of 25.96%-56.69%. Results were obtained where treatment with adding synbiotic feed and probiotic B. subtilis dose of 10^5 CFU/mL in the feed increased the immune system response of the saline tilapia.