

# Functional-Food Supplementation and Health of Broilers

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### **Abstract :**

Abstract: This study was conducted to evaluate the effect of a probiotic mixture and chromium as food supplementation on broiler chicks' performance. The experiment was conducted, to determine the effect of a probiotic mixture (BiovetYC) and chromium chloride supplementation on growth performance, carcass traits and immune response against Avian Influenza virus from 0- to 42-d-old broiler chicks as well as to determine the anti-stress effect of the dietary probiotic mixture and chromium chloride supplementation on broiler chicks (0-42days old) when subjected to high stocking density (15 birds/m<sup>2</sup> in open-system) as a stress factor. Growth performance, carcass traits and Avian Influenza immune response were recorded. At 42-d of age, 50 birds were randomly selected from each group for blood samples collection and slaughtered for carcass traits. Stress indicators in blood (cortisol and L/H ratio) were measured. The current results revealed: (1) The activation effect of the probiotic mixture on growth performance (2) Chromium chloride supplementation improves growth performance, carcass traits, and immune response and had a strong anti-stress effect. [Nature and Science 2010;8(5):181-189]. (ISSN: 1545-0740).

### **Key Word :**

Functional food; Performance; Immune response.

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