
P41. EFFECT OF SOME BEVERAGES ON THE *DROSOPHILA MELANOGASTER* SURVIVAL PERCENTAGE

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Energy drinks are a group of products that are advertised as being able to provide alertness and energy, and counteract sleepiness. In this study, different types of energy drinks and some beverages have been evaluated for toxic effects in *Drosophila melanogaster* individual. During the experiments, 1.5 g medium was wetted with 5 mL beverages and 100 third-instar larvae were chronically fed with the *Drosophila* instant medium. Feeding ended with pupation of the surviving larvae. The experiments were repeated 3 times for each beverage. 5 mL water was used as control group. Statistically significant differences in percent survival between experimental and control groups were compared by using Chi-squared test. After the experiments, percentages of survival were found to be 83% for Black colt, 86% for Power ball, 91% for Buzzer, 97% for Powerade, 83% for Lion Club, 93% for Coca cola, 94% for Pepsi 96% for Fanta, 0% for Turkish rakı (pure), 0% for Turkish rakı (70 %) and 99% for water control. There was a statistically significant difference in favor of the control group between survival percentage of 100 % and 70 % Turkish rakı groups and that of the control group ($p < 0.001$).

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