# Mutagenic effects of Windex on *Drosophila melanogaster*

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MUTAGENIC EFFECTS OF WINDEX

Abstract

Windex is a household cleaner used on surfaces such as windows and mirrors. There have never been studies done to determine whether Windex can have mutagenic effects. The objective of this study was to determine whether Windex can induce mutations in a colony of *Drophilia melanogaster,* commonly known as the “fruit fly”. Four female fruit flies and two male fruit flies were placed in each of five different plastic vials. These five vials held the food (for the fruit flies) along with the different dilutions of Windex. The control group contained only water, with no Windex. The four other groups held dilutions of five percent Windex, fifteen percent Windex, fifty percent Windex, and pure Windex undiluted. The control group yielded one mutation out of 63 fruit flies. The 5% dilution had eight mutations out of 67 fruit flies, the 15% dilution had 14 mutations out of 48 fruit flies, and the 50% dilution had four mutations out of 13 fruit flies. It was found that Windex was able to increase the frequency of mutations in *D. Melanogaster.*