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*A Colorful Debate: A Study on the Effect of FD&C Yellow 5 on Gromphadorhina portentosa*

The purpose of this research project is to determine whether the artificial food color tartrazine can cause or contribute to hyperactivity. This benefits mankind because it could present a possible way to reduce hyperactive symptoms.

Madagascar Hissing Cockroaches were given a mixture of tartrazine and dimethyl sulfoxide, a solvent that easily absorbs through organic compounds. The researcher tested their activity by placing each roach on a square inch grid and counting how many squares each covered in a minute. For more data, the researcher will do more testing with one group ingesting the tartrazine and another getting a different mixture of DMSO and tartrazine and testing their activity in the same way. The results will be compared to both the test group's level of activity before being given the tartrazine and the control group's level of activity.

The first time testing was done, the results showed that the tartrazine actually caused the test subjects to become less active. It also showed other ill health effects. Research is still in progress for the second method of testing.

These results showed that tartrazine does not cause hyperactivity. It does, however, have other ill health effects.