

The mutagenicity of the smoke condensates was determined in groups of five cigarette types (the raw data for each group of cigarettes are given on a separate sheet), which always included Players Check 20 for intercomparison of samples, and each group was tested six times (experiment nos. 1-6 on raw data sheet). Dose levels of 50, 100, 150, 200 and 400 µg condensate per plate was tested in triplicate for each cigarette type. As an example, group I consisted of cigarette numbers 205, 385, 454 and 514 along with Players Check 20, which were tested together for mutagenicity on six different days.

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I believe that you asked Mr. R. S. Wade what information we hoped to learn from these experiments. The following are the main aims of these experiments:

1. Whether it is possible to differentiate cigarettes on the basis of the Ames test.
2. Whether there are any correlations with other short-term and long-term tests.

Finally, I would also appreciate your opinion whether 6 replicates are required for such data, for significance at the 95% level.

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