

of starch.

### Method of Analysis

—Solutions containing starch, amylose, and amylopectin (1 g. A. A. I. each) were added to 10 ml. of water and 1 ml. of 10% NaOH solution. After 10 min., 1 ml. of 10% HCl was added and the mixture was heated for 10 min. at 100°C. The excess heat was removed by cooling in ice water.

After centrifugation, the supernatant was discarded.

- (a) 1 ml. of 10% NaOH solution
- (b) 1 ml. of 10% HCl solution
- (c) 1 ml. of 10% NaOH solution
- (d) 1 ml. of 10% HCl solution

After centrifugation, the supernatant was discarded.

Results.

### Effect of Methanol Concentration

Table I gives the results of the chromatograms obtained by adding 1 ml. of 10% NaOH solution to 10 ml. of 10% amylose solution. The results show that the addition of methanol to the column has little effect on the chromatogram.

Table II shows the results of the chromatograms obtained by adding 1 ml. of 10% NaOH solution to 10 ml. of 10% amylopectin solution.

Table III shows the results of the chromatograms obtained by adding 1 ml. of 10% NaOH solution to 10 ml. of 10% amylopectin solution.

Table IV shows the results of the chromatograms obtained by adding 1 ml. of 10% NaOH solution to 10 ml. of 10% amylopectin solution.

Table V shows the results of the chromatograms obtained by adding 1 ml. of 10% NaOH solution to 10 ml. of 10% amylopectin solution.

Table VI shows the results of the chromatograms obtained by adding 1 ml. of 10% NaOH solution to 10 ml. of 10% amylopectin solution.

Table VII shows the results of the chromatograms obtained by adding 1 ml. of 10% NaOH solution to 10 ml. of 10% amylopectin solution.

Table VIII shows the results of the chromatograms obtained by adding 1 ml. of 10% NaOH solution to 10 ml. of 10% amylopectin solution.

Table IX shows the results of the chromatograms obtained by adding 1 ml. of 10% NaOH solution to 10 ml. of 10% amylopectin solution.

Table X shows the results of the chromatograms obtained by adding 1 ml. of 10% NaOH solution to 10 ml. of 10% amylopectin solution.

Table XI shows the results of the chromatograms obtained by adding 1 ml. of 10% NaOH solution to 10 ml. of 10% amylopectin solution.

Table XII shows the results of the chromatograms obtained by adding 1 ml. of 10% NaOH solution to 10 ml. of 10% amylopectin solution.

Table XIII shows the results of the chromatograms obtained by adding 1 ml. of 10% NaOH solution to 10 ml. of 10% amylopectin solution.

Table XIV shows the results of the chromatograms obtained by adding 1 ml. of 10% NaOH solution to 10 ml. of 10% amylopectin solution.

Table XV shows the results of the chromatograms obtained by adding 1 ml. of 10% NaOH solution to 10 ml. of 10% amylopectin solution.

Table XVI shows the results of the chromatograms obtained by adding 1 ml. of 10% NaOH solution to 10 ml. of 10% amylopectin solution.

Table XVII shows the results of the chromatograms obtained by adding 1 ml. of 10% NaOH solution to 10 ml. of 10% amylopectin solution.

Table XVIII shows the results of the chromatograms obtained by adding 1 ml. of 10% NaOH solution to 10 ml. of 10% amylopectin solution.

Table XVIX shows the results of the chromatograms obtained by adding 1 ml. of 10% NaOH solution to 10 ml. of 10% amylopectin solution.