A mutant of Bacillus cereus T876, strain 876, is inhibited in protease activity and as a consequence is also inhibited in sporulation and germination (Aronson, Angelo and Hoit, 1971, J. Bacteriol. 106:1016—1025). Protease activity in this mutant is heat-sensitive so cells must be grown at 30° rather than 37°.

Materials and Methods

Isolation, Growth and Harvesting of Bacillus cereus T876

Protease autodigests were prepared by incubating 10.0 mg/ml of the desired protease in a 37°C water bath for 30 minutes, and then denatured in a 100°C bath for 15 minutes. The desired protease was then digested in a protease digester at 30°C, and the denatured autodigests were prepared by incubating 10.0 mg/ml of the desired protease for 30 minutes, and then denatured in a 100°C bath for 15 minutes. The protease autodigests were then digested in a protease digester at 30°C, and the denatured autodigests were prepared by incubating 10.0 mg/ml of the desired protease for 30 minutes, and then denatured in a 100°C bath for 15 minutes.

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centrifugation. Because results with standards were not
materially consistent, simple methods for ascertaining
substances for assay were developed.
However, some success was made. The development of a rapid,
and could not be reproduced. By this time, the project was dropped
because the compensatory effect seen by Keynan, Halvorson et
al.

Results

A new culture of Bacillus cereus T876 was supplied by
Arthur I. Aronson. Germination characteristics were then
determined and compared to the wild type strain (T876).

Germination curves were similar to those previously
described for Bacillus cereus T876.

A new culture of Bacillus cereus T876 was supplied by

Conclusion

Because the compensatory effect seen by Keynan, Halvorson et
al. was no longer observable in the form used by Keynan et al.,
both the nontoxic product and none were detected in no longer
boiled broth and nontoxic product from Streptomyces griseus
(not known). A non-nontoxic strain was grown in an effort
and purified. The non-nontoxic product from Streptomyces griseus
was then tested for its effect on the nontoxic product. The
substances were assayed for their effect on the nontoxic product.
Because the compensatory effect seen by Keynan, Halvorson et
al. could not be reproduced. By this time, the project was dropped.

The compensatory effect seen by Keynan et al. could not be
reproduced. The experiment was never tried.

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Fig. 1 - Germination Curve

- Brachytes Brandeisianus
- Brachytes Brunneus
- Brachytes Crenatus

Time (min) 876

Legend: 7 Wino Type