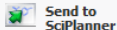
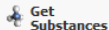




## Reference Detail

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By: Baykousheva, S.; Ilieva, K.

Tween detergents affected sporulation and extracellular alk. proteinase (subtilisin) of B. subtilis in contrary ways. Concns. of 1-6 mg/mL did not change cellular growth, but sporulation was markedly depressed. At concns.  $\leq 4$  mg/mL, Tween 20 and Tween 40 stimulated the alk. proteinase in vitro as well as extracellular activity. Tween 80 increased the extracellular activity but had little effect on enzyme activity in vitro. Apparently, the program for sporulation (or its prevention) is processed independently of alk. proteinase secretion.

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**Supplementary Terms**

Bacillus alk proteinase sporulation Tween; detergent Bacillus alk proteinase sporulation