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**Inactivation of Blastocidin S by *Bacillus cereus* I.
Inactivation Mechanism.**

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Blasticidin S (BS) is an aminoacyl-nucleoside antibiotic possessing anti-fungal activity, especially against *Pyricularia oryzae*. In our attempts to find BS-resistant strains, we isolated two closely related bacteria, *Bacillus cereus* K55-S1 and K55-S2, which grew on a plate containing 2000 $\mu\text{g}/\text{ml}$ of BS.

Incubation of BS with the bacterial cells or crude enzyme extract gave deaminated products, 4-deamino-4-hydroxy-BS, 4-deamino-4-hydroxy-cytomycin and 4-deamino-4-hydroxy-isoBS. Enzymatic properties of BS-deaminase were also described.

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