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Author	遠藤, 豊成(Endo, Toyoshige) 古田, 久美子(Furuta, Kumiko) 金子, 明代(Kaneko, Akiyo) 勝木, 知(Katsuki, Tomo) 小林, 香(Kobayashi, Kaori) 東, 明子(Azuma, Akiko) 渡辺, 篤子(Watanabe, Atsuko) 島津, 昭(Shimazu, Akira)
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**Inactivation of Blasticidin S by *Bacillus cereus* I.
Inactivation Mechanism.**

Toyoshige ENDO, Kumiko FURUTA, Akiyo KANEKO, Tomo KATUKI,
Kaoru KOBAYASHI, Akiko AZUMA, Atsuko WATANABE
and Akira SHIMAZU*

遠藤豊成, 古田久美子, 金子明代, 勝木 知, 小林 香,
東 明子, 渡辺篤子, 島津 昭*

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 $\mu\text{g/ml}$ 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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* 東京大学応微研第6研