

Title	Inactivation of blasticidin S by bacillus cereus II. isolation and characterization of a plasmid, pBSR8, from bacillus cereus.
Sub Title	
Author	遠藤, 豊成(Endo, Toyoshige) 小林, 香(Kobayashi, Kaori) 中山, 尚大(Nakayama, Naohiro) 田中, 暉夫(Tanaka, Teruo) 鎌倉, 高志(Kamakura, Takashi) 山口, 勇(Yamaguchi, Isamu)
Publisher	共立薬科大学
Publication year	1988
Jtitle	共立薬科大学研究年報 (The annual report of the Kyoritsu College of Pharmacy). No.33 (1988. ) ,p.169- 169
JaLC DOI	
Abstract	
Notes	抄録
Genre	Technical Report
URL	<a href="https://koara.lib.keio.ac.jp/xoonips/modules/xoonips/detail.php?koara_id=AN00062898-00000033-0169">https://koara.lib.keio.ac.jp/xoonips/modules/xoonips/detail.php?koara_id=AN00062898-00000033-0169</a>

慶應義塾大学学術情報リポジトリ(KOARA)に掲載されているコンテンツの著作権は、それぞれの著作者、学会または出版社/発行者に帰属し、その権利は著作権法によって保護されています。引用にあたっては、著作権法を遵守してご利用ください。

The copyrights of content available on the Keio Associated Repository of Academic resources (KOARA) belong to the respective authors, academic societies, or publishers/issuers, and these rights are protected by the Japanese Copyright Act. When quoting the content, please follow the Japanese copyright act.

**Inactivation of Blasticidin S by *Bacillus cereus* II.  
Isolation and Characterization of a Plasmid,  
pBSR8, from *Bacillus cereus*.**

Toyoshige ENDŌ, Kaori KOBAYASHI, Naohiro NAKAYAMA\*, Teruo TANAKA\*\*,  
Takashi KAMAKURA\*\*\* and Isamu YAMAGUCHI\*\*\*

遠藤豊成, 小林 香, 中山尚大\*, 田中暉夫\*\*,  
鎌倉高志\*\*\*, 山口 勇\*\*\*

*Bacillus cereus* K55-S1 inactivated blasticidin S (BS) by producing BS-deaminase. The resistant property was eliminated by the acridine dye treatment, suggesting participation of an extra-chromosomal gene.

From the bacterium, a plasmid designated as pBSR8 (10.5 kb) was isolated, and was digested by various restriction endonucleases. Introduction of pBSR8 into BS-sensitive *B. subtilis*, after ligation with a vector pNC602, afforded BS-resistant transformants, which produced BS-deaminase.

---

本報告は *J. Antibiotics*, 41 (2) 271—3 (1988) に発表.

\* 東京大学応微研第6研

\*\* 三菱化成生命科学研究所

\*\*\* 理化学研究所