

# Product Information

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## ***Bgl* I** from *Bacillus licheniformis*

Catalog Number **R6753**

Storage Temperature  $-20\text{ }^{\circ}\text{C}$

CAS RN 80449-04-3

EC 3.1.21.4

### **Product Summary**

*Bgl* I is a restriction endonuclease isolated from *Bacillus licheniformis*. *Bgl* I recognizes the sequence 5'-GCC(N)<sub>4</sub>/NGGC-3' and generates fragments with 3'-cohesive termini.<sup>1</sup>

Recognition sequence:



Heat inactivation: Inactivation is achieved at  $65\text{ }^{\circ}\text{C}$  for 15 minutes.

The product is supplied in a storage/dilution buffered solution containing 50 mM Tris-HCl, pH 7.0, with 200 mM NaCl, 7 mM 2-mercaptoethanol, 1 mM EDTA, and 50% (v/v) glycerol.

Activity:  $\geq 10,000$  units/ml

Unit definition: One unit is the enzyme activity that completely cleaves 1  $\mu\text{g}$  of  $\lambda$  DNA in 1 hour at  $37\text{ }^{\circ}\text{C}$  in a total volume of 25  $\mu\text{l}$  of buffer SH for restriction endonucleases.

### **Reagent**

*Bgl* I is supplied with 10 $\times$  Restriction Endonuclease Buffer SH (Catalog Number B3657).

### **Precautions and Disclaimer**

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

### **Storage/Stability**

The product ships on wet ice and storage at  $-20\text{ }^{\circ}\text{C}$  is recommended.

### **Procedure**

A *Bgl* I digestion should be performed at  $37\text{ }^{\circ}\text{C}$  in 1 $\times$  Restriction Endonuclease Buffer SH: 50 mM Tris-HCl, pH 7.5, with 100 mM NaCl, 10 mM  $\text{MgCl}_2$ , and 1 mM dithioerythritol (DTE).

### **Reference**

1. Bickle, T.A. et al., *Methods in Enzymology*, **85**, 132 (1980).

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