

Important!

Includes new buffers!
Review instructions
before use.

***Bam*H I**

Store at -20°C

10X Loading Buffer: 1 mL

10X Buffer K: 1 mL

Cleavage Site: 5' -G↓GATC C-3'
 3' -C CTAG↑G-5'

Contents

Cat. no.	Size
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15201-023	2,000 U
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15201-049	10,000 U
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Restriction Enzyme Reaction Mix

<i>Bam</i> H I	1 µL
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10X Buffer K	2 µL
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Substrate DNA	≤1 µg
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Sterile water	to 20 µL
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Incubate at 30°C.

To use the loading buffer, add 1/10 volume of 10X Loading Buffer to an aliquot of the reaction mix, load on to an agarose gel, and analyze by electrophoresis.

Visit www.invitrogen.com/restrictionenzymes for details.

Intended Use

For research use only. Not intended for any animal or human therapeutic or diagnostic use.

Notes

- SDS in the loading buffer may precipitate during storage at room temperature. Warm the buffer to dissolve any SDS precipitate before use.
- The enzyme shows equivalent activity at 37°C compared to 30°C, but the stability of the enzyme in reaction mixture at 37°C is lower than that of at 30 °C.

Source

Bacillus amyloliquefaciens H

Unit Definition

One unit is the amount of enzyme required to completely digest 1 µg of λDNA in 50 µL of the reaction mixture in one hour at 30°C.

Relative Activity in Universal Buffers

Buffer	L	M	H	K	T (+BSA)
Relative Activity (%)	<20*	<20	40	100	<20*

*Weak star activity is detected.

Inactivation by Heat

Enzyme inactivated by heating at 65°C for 20 minutes.

Effect of DNA Methylation

Enzyme activity is not affected by CG methylase, dam methylase, and dcm methylase.

Star Activity

Unrelated site may often be cut in the presence of high concentrations of glycerol or Mn^{2+} and at low ionic strength.

Buffer Compositions

10X Buffer K

200 mM Tris-HCl, pH 8.5

100 mM MgCl_2

10 mM Dithiothreitol

1,000 mM KCl

Storage Buffer

10 mM Tris-HCl, pH 7.5

400 mM KCl

0.1 mM EDTA

1 mM DTT

0.15% Triton[®] X-100

0.01% BSA

50% (v/v) glycerol

Loading Buffer

1% SDS

50% glycerol

0.05% Bromophenol blue

Related Products

Product	Quantity	Cat. no.
T4 DNA Ligase	250 units	15224-041
T4 Polynucleotide Kinase	1,000 U	18004-028
UltraPure™ Low Melting Point Agarose	100 g	16520-100
TrackIt™ 1 Kb Plus DNA Ladder	100 applications	10488-085
SYBR® Safe DNA Gel Stain (10,000X)	400 µL	S33102
E-Gel® EX Starter Kit, 1%	1 kit	G6511ST

Product Qualification

Certificate of Analysis is available from www.invitrogen.com/support. Search for the certificate of analysis by product lot number, which is printed on the box.

Technical Support

For technical support, email tech_support@invitrogen.com or visit www.invitrogen.com.

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