

Important!

Includes new buffers!
Review instructions
before use.

Spe I

Cat. no. 15443-013

Size: 200 Units

Store at **-20°C**

10X Buffer M: 1 mL

10X Loading Buffer: 1 mL

Cleavage Site:



Restriction Enzyme Reaction Mix

Spe I	1 μ L
10X Buffer M	2 μ L
Substrate DNA	≤ 1 μ g
Sterile water	to 20 μ L

Incubate at 37°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.

Note: SDS in the loading buffer may precipitate during storage at room temperature. Warm the buffer to dissolve any SDS precipitate before use.

Source

Sphaerotilus natans

Unit Definition

One unit is the amount of enzyme required to completely digest 1 μg of Ad2 DNA in 50 μL of the reaction mixture in 1 hour at 37°C.

Relative Activity in Universal Buffers

Buffer	L	M	H	K	T (+BSA)
Relative Activity (%)	80*	100	80	100	80*

*Weak star activity is detected.

Inactivation by Heat

Enzyme is inactivated by heating at 80°C for 20 minutes.

Effect of DNA Methylation

Enzyme activity is unaffected by DNA methylation.

Star Activity

Unrelated site may be cut at low ionic strength.

Buffer Compositions

10X Buffer M

100 mM Tris-HCl, pH 7.5

100 mM MgCl₂

10 mM Dithiothreitol (DTT)

500 mM NaCl

Storage Buffer

10 mM Tris-HCl, pH 7.5

100 mM KCl

0.1 mM EDTA

1 mM Dithiothreitol (DTT)

0.15% Triton[®] X-100

0.01% BSA

50% (v/v) glycerol

Loading Buffer

1% SDS

50% glycerol

0.05% Bromophenol blue

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.

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

Technical Support

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

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