

Pst I

Cat. no. 15215-015

Important!

Includes new buffers!
Review instructions
before use.

Size: 3,000 Units

Store at -20°C 10X Buffer H: 1 mL

10X Loading Buffer: 1 mL

Cleavage Site: 5'-C TGCA \downarrow G-3'3 $'-G\uparrow$ ACGT C-5'

Restriction Enzyme Reaction Mix

Pst I1 μL10X Buffer H2 μLSubstrate DNA \leq 1 μgSterile waterto 20 μL

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 <u>www.invitrogen.com/restrictionenzymes</u> for details.

Intended Use

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

Doc. no. MAN0001199 Rev. 21 Apr 2010

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

Source

Eschcerichia coli ED8654 carrying the plasmid encoding the Pst I gene

Unit Definition

One unit is the amount of enzyme required to completely digest 1 μ g of λ DNA in 50 μ L of the reaction mixture in 1 hour at 37°C.

Relative Activity in Universal Buffers

Buffer	L	M	Н	K	T (+BSA)
Relative Activity (%)	<20*	60*	100	80	20*

^{*}Weak star activity is detected.

Inactivation by Heat

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

Effect of DNA Methylation

Enzyme is not sensitive to dam, dcm, or CG methylation.

Star Activity

Unrelated site may be cut in the presence of high glycerol concentrations.

Buffer Compositions

10X Buffer H

500 mM Tris-HCl, pH 7.5 100 mM MgCl₂ 10 mM Dithiothreitol 1,000 mM NaCl

Storage Buffer

10 mM Tris-HCl, pH 7.5

100 mM NaCl

10 mM MgCl₂

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

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

©2010 Life Technologies Corporation. All rights reserved. Carlsbad, CA <u>www.invitrogen.com</u> Made in China

The trademarks mentioned herein are the property of Life Technologies Corporation or their respective owners. Triton® X-100 is a registered trademark of Union Carbide Chemicals & Plastics Technology Corp.