



Speedy PstI

Catalogue number:

MB10301, 400 reactions

MB10302, 2000 reactions

5'...CTGCA↓G...3'

3'...G↓ACGTC...5'

Description

NZYTech's Speedy restriction enzymes are a new generation of DNA modifying enzymes developed for rapid DNA digestion. All Speedy enzymes are 100% active in the NZYSpeedyBuffers and are able to digest DNA in 5-15 minutes. NZYSpeedyBuffers are universal and enable any combination of NZY Speedy restriction enzymes to work simultaneously. It's ideal for double or multiple digestions, eliminating the need for sequential digestions. NZYSpeedyBuffer Orange also allows ready gel load after digestion. Speedy PstI activity is not affected by *dam* methylation, *dcm* methylation or CpG methylation. NZYTech's Speedy PstI is a fast enzyme that performs its reaction usually in 5-15 minutes at 37 °C.

Concentration

One μL of enzyme can completely digest up to 1 μg of DNA in 5-15 min.

Reagents supplied with the enzyme

10 \times NZYSpeedyBuffer Colourless

10 \times NZYSpeedyBuffer Orange

Storage buffer

25 mM NaHepes, pH 7.5, 500 mM NaCl, 150 mM Imidazol, 2.5 mM CaCl_2 , 50% (v/v) glycerol.

Recommended reaction conditions

Speedy PstI	1 μL
10 \times NZYSpeedyBuffer	2 μL
Substrate DNA	$\leq 1 \mu\text{g}$
Sterilized ultrapure water	up to 20 μL

Incubation temperature

37 °C for 5-15 minutes.

Heat inactivation

80 °C for 20 minutes.

Quality control

Purity

Speedy PstI has been determined to be >90% pure as judged by SDS-PAGE followed by BlueSafe staining (MB15201).

DNases assay

10 U of Speedy PstI were incubated with 0.2-0.3 μg of pNZY28 for 14-16 hours at 37 °C. No nicking activity was observed following agarose gel electrophoresis.

Functional assay

Speedy PstI was tested for performance in a digestion of 1 µg of a recombinant pNZY28 derivative using 1 µL of enzyme. The resulting digestion was visualized in an agarose gel.

Storage conditions

Speedy PstI should be stored at -20 °C at all times. Do not keep it on ice while working at the bench.

Shipping conditions

Dry ice.

Product life

Please see the product labels.

V1901

Certificate of Analysis

Assay	Result
Protein purity	Pass
DNases assay	Pass
Functional assay	Pass

Approved by:



Patricia Ponte
Senior Manager, Quality Systems

For research use only.



nzytech

genes & enzymes

Estrada do Paço do Lumiar, Campus do Lumiar - Edifício E, R/C, 1649-038 Lisboa, Portugal

Tel.: +351.213643514 Fax: +351.217151168

www.nzytech.com