

CERTIFICATE OF ANALYSIS

Description: Exonuclease III (E. coli) catalyzes

the stepwise removal of mononucleotides from

3'-hydroxyl termini of double stranded DNA. Exonuclease III activity depends partially on

helicalstructure and displays sequence dependence

Reaction Conditions: 1 x SEBuffer Exonuclease III. Incubate at 37°C. (C>A=T>G). Temperature, salt concentration and the

Storage Buffer:

10 mM Tris-HCl (pH 7,5);

50 mM KCl; 0.5 mM EDTA;

1 x SEBuffer Exonuclease III (pH 8.0@25°C) 66 mM Tris-HCl: 6.6 mM MgCl₂.

1 mM 2-mercaptoethanol; 50% glycerol.

Unit Definition: One unit is defined as the amount of

enzyme required to produce 1 nmoles of acid-soluble

Assay Conditions: 50 mM Tris-HCl (pH 7.5 at 25°C):

1 mM MgCl_a: 1 mM DTT, 0.15 mM sonicated pancreatic

Reagents Supplied with Enzyme:

10 x SEBuffer Exonuclease III.

nucleotides in 30 minutes at 37°C.

DNA

ratio of enzyme to DNA greatly affect enzyme

activity, requiring reaction conditions to be tailored

Source: Isolated from an E.coli strain carrying the

Applications:

to specific applications.

- unidirectional nested deletions:

gene of the enzyme on a plasmid.

- site-directed mutagenesis;
- preparation of strand-specific probes; - preparation of single-stranded substrates for
- dideoxy sequencing.

For more details scan the code

Exo-

nuclease III

E345

5,000 units

100,000 u/ml

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Lot: 16

Exp: 07/20

Store at -20°C