Phosphatase, alkaline

From calf intestine
Orthophosphoric-monoester phosphohydrolase (alkaline optimum)

Cat. No. 10 713 023 001 1,000 U (1 U/µl)
Cat. No. 11 097 075 001 1,000 U (20 U/µl)

Product Overview

Quality Control
Lot-specific certificates of analysis are available at www.lifescience.roche.com/certificates

Absence of deoxyribonucleases
1) 1 µg λDNA is incubated with Alkaline Phosphatase for 1 h at +37°C in 25 µl Dephosphorylation Buffer. For up to 50 U of Alkaline Phosphatase, no degradation of λDNA is detectable.

2) 1 µg Eco RI Hind III fragments of λDNA is incubated with Alkaline Phosphatase for 1 h at +37°C in 25 µl Dephosphorylation Buffer. For up to 50 U of Alkaline Phosphatase, no alteration of the banding pattern is shown.

Absence of nicking activities
1 µg supercoiled pBR322 DNA is incubated with Alkaline Phosphatase for 1 h at +37°C in 25 µl Dephosphorylation Buffer. For up to 50 U of Alkaline Phosphatase, no relaxing of supercoiled structure of pBR322 is detectable.

Absence of exonucleases
15 nmol of sonicated [3H]-DNA (approx. 100,000 cpm/µg) from calf thymus are incubated with Alkaline Phosphatase for 4 h at +37°C in 100 µl buffer (50 mM Tris-HCl, 0.1 mM MgCl2, 1 mM dithioerythritol, pH 7.5). For up to 50 U of Alkaline Phosphatase, no radioactivity is detectable.

Absence of ribonucleases
5 µg MS2 RNA is incubated with Alkaline Phosphatase for 1 h at +50°C in 50 µl Dephosphorylation Buffer. For up to 50 U of Alkaline Phosphatase, no degradation of MS2 RNA is detectable.

References

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Changes to previous version
Editorial changes

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