EURx® MOLECULAR BIOLOGY PRODUCTS

AvrII

5'-C C T A G G-3'
3'-G G A T C C-5'

Cat. No.	size
E2003-01	400 units
E2003-02	2000 units

Reaction Temperature: 37°C

Inactivation Temperature: no

Prototype: AvrII

Isoschizomer: BlnI, XmaJI, AspA2I

Source: Recombinant, purified from *E.coli* strain that carries the AvrII gene from *Anabaena variabilis* UW.

Package Contents:

- **AvrII**
- **10x ONE Buffer**
- **BSA [100x]**
  Added as separate component to prevent reaction buffer precipitation.

Storage Conditions: Store at -20°C

Double Digestion – Buffer Compatibility:

ONE Buffer is compatible with most EURx restriction enzymes.

Restriction Enzyme Buffer Compatibility:

Both, enzyme and buffers are fully compatible to restrictases and buffer systems from other manufacturers and can be used along in double digestions. To obtain best results, consult the corresponding manuals of all involved products.

DNA Methylation:

No Inhibition: dam, dcm, EcoKI, CpG

Standard Reaction Protocol (for 50 µl volume):

Mix the following reaction components:

1-2 µg pure DNA or 10 µl PCR product (=~0.1-2 µg DNA)

5 µl 10x ONE Buffer

0.5 µl BSA [100x]

1-2 U AvrII (use 1 U per µg DNA, < 10 % React. Volume!)

Tips: Add enzyme as last component. Mix components well before adding enzyme. After enzyme addition, mix gently by pipetting. Do not vortex. High (excess) amounts of enzyme can greatly speed up the reaction.

add sterile H_2O to 50 µl final volume

Incubate for 1 h at 37°C

To obtain complete digestion of high molecular weight DNA, (e.g. plant genomic DNA), add excess amounts of enzyme and prolong the incubation time.

Stop reaction by alternatively

(a) Addition of 1.2 µl EDTA pH 8.0 [0.5 M], final 20 mM *or*

(b) Spin Column DNA Purification

(e.g. EURx PCR/DNA CleanUp Kit, Cat.No. E3520) *or*

(c) Gel Electrophoresis and Single Band Excision

(e.g. EURx AgaroseOut DNA Kit, Cat.No. E3540) *or*

(d) Phenol-Chloroform Extraction or Ethanol Precipitation.

Unit Definition:

One unit is the amount of enzyme required to completely digest 1 µg of Lambda/HindIII DNA in 1 hr at 37°C. Total reaction volume is 50 µl. Enzyme activity was determined in the recommended reaction buffer.

Reaction Buffer:

1x ONE Buffer. To be supplemented with 100 µg/ml bovine serum albumin.

Storage Buffer:

10 mM Tris-HCl (pH 7.5 at 22°C), 300 mM NaCl, 1 mM DTT, 0,1 mM EDTA, 500 µg/ml bovine serum albumin and 50 %(v/v) glycerol.

Quality Control:

All preparations are assayed for contaminating endonuclease, 3'-exonuclease, as well as nonspecific single- and double-stranded DNase activities.

EURx Ltd. 80-297 Gdańsk Poland ul. Przyrodników 3, NIP 957-07-05-191, KRS 0000202039
www.eurx.com.pl, orders@eurx.com.pl, *tel.* +48 58 524 06 97, *fax* +48 58 341 74 23