




DATA SHEET

Product info: CciN I

Name	CciN I 	
Cat. #	E203	E204
Package, u.a.	200	1000
Concentration, u.a./ml	2000-5000	2000-5000

Recognition site	GC↑GGCCGC CGCCGG↓CG
Source	Curtobacterium citreus N
Assayed on	Adenovirus-2 DNA
Unit definition	One unit of the enzyme is the amount required to hydrolyze 1 µg of Adenovirus-2 DNA in 1 hour at 37°C in a total reaction volume of 50 µl.
Optimal SE-buffer	Y (33 mM Tris-acetate (pH 7.9 at 25°C); 10 mM magnesium acetate; 66 mM potassium acetate; 1 mM DTT.)



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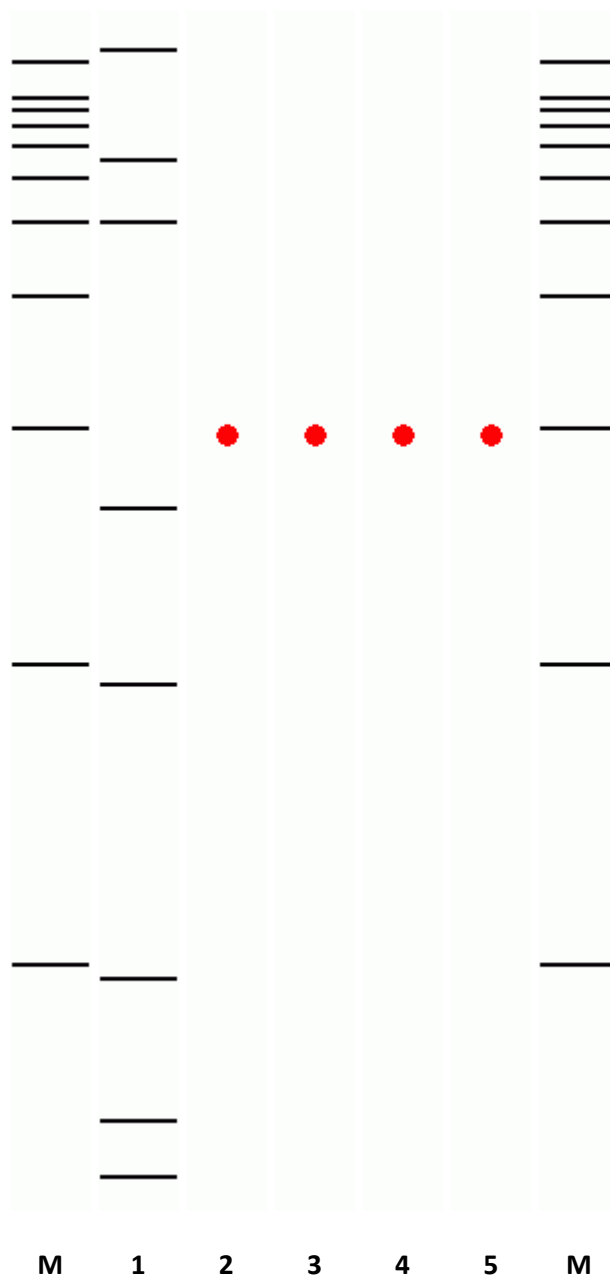
Enzyme activity (%)	<table><tr><td>B</td><td>G</td><td>O</td><td>W</td><td>Y</td><td>R</td></tr><tr><td>25 - 50</td><td>50 - 75</td><td>75 - 100</td><td>75 - 100</td><td>100</td><td>100</td></tr></table>	B	G	O	W	Y	R	25 - 50	50 - 75	75 - 100	75 - 100	100	100
B	G	O	W	Y	R								
25 - 50	50 - 75	75 - 100	75 - 100	100	100								
Optimal temperature	37°C												
Storage conditions	10 mM Tris-HCl (pH 7.5); 100 mM NaCl; 0,1 mM EDTA; 7 mM 2-mercaptoethanol; 200 µg/ml BSA; 50% glycerol. Store at -20°C.												
Ligations	After 5-fold overdigestion with enzyme about 95% of the DNA fragments can be ligated and recut.												
Non-specific hydrolisis	No nonspecific activity was detected after incubation of 1 µg of DNA Ad-2 with 10 u.a. of enzyme for 16 hours at 37°C.												
Reagents Supplied with Enzyme	10 X SE-buffer Y												
Methylation sensitivity	Blocked by CG methylation.												
Inactivation 20 minutes under	65°C												
Notes	High enzyme concentration may result in star activity.												
References:	Verchozina, V.A., Degtyarev, S.Kh. Gene 157: 99-100 (1995).												

Theoretical diagrams of DNA digestion by this enzyme for the most known DNA substrates:

To view the fragments length values please point mouse cursor over diagram

Fragment lengths

No hydrolysis marks due to an absense of the recognition sites



M - ladder, **1** - Adeno-2 DNA, **2** - Lambda DNA, **3** - T7 DNA, **4** - pUC19, **5** - pBR322