BioVision

Dpnl

	БЪШ				
	CATALOG NO.:	M1236-2000			
	AMOUNT:	2000 U (100 µl)		HEAT INACTIVATION:	Heat at 65°C for 20 minutes
	CONCENTRATION:	20 U/µl Liquid		STORAGE CONDITIONS:	Store at -20°C. Avoid repeated freeze-thaw cycles of all components to retain maximum performance. All components are stable for one year from the date of shipping when stored and handled property.
	FORM:				
	SOURCE:	DURCE: An <i>E.coli</i> strain that carries the DpnI gene from Diplococcus			and nandred propenty.
KIT COMPONENTS:					
	Comp Dpnl (10X U DESCRIPTION:	Donents (20000 U/ml) Iniversal Restriction Enzyme Reaction Buffer Iniversal Restriction Enzyme Reaction Buffer The DpnI restriction enzyme digests DNA a requiring N6-methylation of the adenine residu purified from a dam* E. coli strain will be a substo to the adenine methylation. DpnI cleaves hem sites 60X more slowly than fully methylated da Molecular cloning Site directed mutagenesis Restriction site mapping Genotyping Southern Blot SNP Restriction fragment length polymorphism (RE	Volume Part No. 100 µl M1236-2000-1 1.25 ml M1236-2000-2 tt G ^{me} A↓TC sites, le for activity. DNA strate for Dpnl due hi-methylated dam am sites.	PCR product Plasm + Dpni - Dpni NTC + Dpni + Dpni - Dpni NTC + Dpni High performance and hi products such as PCR am plasmids amplified in DH50 templates from PCR rea	The specificity of Dpnl. Dpnl does not cut unmethylated plicons, but is highly specific for methylated DNA such as a <i>E.coli</i> (Fig.A), allowing for complete removal of plasmid ctions to eliminate unwanted background colonies in
	RECOGNITION SEQUENCE: $5' \dots G \stackrel{CH_3}{\downarrow}$ $5' \dots G \stackrel{A}{\rightarrow} T C \dots 3'$ $3' \dots C \prod_{CH_3} A G \dots 5'$			yielding no transformants from 1 of digested plasmid DNA.,	
	METHYLATION SENSITIVIT	 Y: dam methylation: Not sensitive dcm methylation: Not sensitive CpG methylation: Blocked by overlapping 		RELATED PRODUCTS:	
	ENZYME STORAGE BUFFE	RAGE BUFFER: 10 mM Tris-HCl (pH 7.5), 300 mM NaCl, 1 mM DTT, 0.1 mM EDTA, 500 μg/ml BSA, and 50% (v/v) Glycerol.		 RNase III <i>E.coli</i> (C RNase A (Cat# M1 RNase R (Cat# M1 	at# M1226-100) 227-25) 1228-500)
	ENZYME UNIT DEFINITION:	One unit is defined as the amount of restriction to digest 1 μ g of dam methylated pBR322 DNA in a reaction volume of 50 μ l.	n enzyme needed A in 1 hour at 37°C	 RNaseOFF ribonuc DpnI (Cat# M1236) 	clease Inhibitor (Cat# M1238-4000) -2000)
	REACTION CONDITIONS:	1X Universal Restriction Enzyme Reaction Bu at 37°C.	uffer and incubate		

REACTION BUFFER COMPATIBILITY: Buffer 1: 100%, Buffer 2: 100%, Buffer 3: 75%, Universal Buffer: 100%

FOR RESEARCH USE ONLY! Not to be used on humans.