

# A DNA-modification methylase from *Bacillus stearothermophilus* V

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A type II modification methylase (M BstVI) was partially purified from the thermophilic bacterium *Bacillus stearothermophilus* V. The methylase catalyses the transfer of methyl groups from S-adenosyl-L-methionine to unmodified double-stranded DNA. The product of methylation was identified by paper chromatography as N6-methyladenine. Since M BstVI protects DNA against cleavage by BstVI and XhoI restriction endonucleases, it follows that it methylates the adenine residue in the sequence 5'-C-T-C-G-A-G-3'.