

O.D.260 Inc.

Certificate of Analysis
Ad5.CMVβGal DNA

Research use only

Catalog No: ZC-01

Lot No: 0101

Contents:

Ad5.CMVβGal DNA, 0.5 µg/µL, 20 µL

Buffer:

TE pH 7.5

Storage: -20°C

Features and Applications:

Ad5.CMVβGal DNA is an Ad5-based adenovirus containing a 4.3 kb-long LacZ expression cassette in place of the E1 region, oriented from right to left

relative to the adenovirus genome. The *E. coli* β-galactosidase coding sequence is fused to a SV40 nuclear localization signal and is under the control of a human cytomegalovirus (CMV) promoter and a mouse protamine 1 polyadenylation signal. Both E1 (3.1 kb) and E3 (2.7 kb) regions are deleted. The two *SfiI* sites naturally present in WT Ad5 DNA were mutated by substituting A for G and C at positions 16291 and 16294 in the Ad5 genome, and C and G for respectively G and C at positions 23001 and 23004 in the Ad5 genome, introducing silent mutations in the adenovirus pVII and DNA-binding protein coding sequences.

Purification Method:

Double CsCl banding.

Virus recovery:

Transfect 2 µg Ad5.CMVβGal DNA into 293 cells growing in a 6-cm dish (~80% confluence). Split the transfected cells 3 days after the transfection. Virus plaques can be detected 5 days after the transfection.

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