



6143 North 60th Street
Milwaukee, WI 53218
www.chimerx.com

Certificate of Analysis

Telephone: (414) 535-9506
Toll Free: (800) 626-7833
Fax: (414) 535-9508
Web Support: chimerx.com/support
Email: info@chimerx.com

Bovine Serum Albumin

Catalog No: 4020

Lot No: See Product Label

Package Size: See Product Label

Concentration: See Product Label

Storage Conditions: Store at -20°C

Description

- Acetylated BSA, free of nuclease contamination

Applications

- Acetylated to inactivate contaminating nucleases; used as a supplement in biochemical reactions
- Prolongs half-lifetime of enzymes during reaction
- Suitable for dilution of restriction endonucleases and nucleic acid modifying enzymes
- For use in reaction systems requiring nuclease-free bovine serum albumin (1)
- Can be used as a carrier protein for antibody production
- Stabilizing agent during PCR amplification

Storage Buffer

10 mM Tris-HCl (pH 7.5)
Sterile Buffer

Quality Control

Nicking: Incubation of 50, 100, and 200 µg of BSA with 1.0 µg of pBR322 DNA at 37°C for 1 hour resulted in ≤10% conversion of RFI to RFII DNA. Reaction volume of 50 µl.

3'-Exonuclease: Incubation of 50, 100, and 200 µg of BSA and 5.0 pmoles of lambda/Taq I fragments (3'-labeled with Klenow exo- and [³HdCTP), incubated for 1 hour at 37°C resulted in ≤0.3 slope of %-end label released per µg of BSA. Reaction volume of 50 µl.

5'-Exonuclease/5'-Phosphatase:

Incubation of 50, 100, and 200 µg of bovine serum albumin with 0.25 µg of [⁵-³²P]lambda/Hae III fragments for 1 hour at 37°C resulted in ≤0.3 slope of %-end label released per µg of BSA. Reaction volume 50 µl.

DNase, double-stranded: Incubation of 50, 100, and 200 µg of BSA with 0.03 µg of [³²P]lambda DNA for 1 hour at 37°C resulted in ≤0.3 slope of %-end label released per µg of BSA. Reaction volume of 50 µl.

DNase, single-stranded: Incubation of 50, 100, and 200 µg of BSA with 0.03 µg of heat-denatured [³²P]lambda DNA for 1 hour at 37°C resulted in a 0.001 slope of %-end label released per µg of BSA. Reaction volume 50 µl.

RNase: Incubation of 50, 100, and 200 µg of BSA with 0.015 µg of [³²P] RNA transcript for 1 hour at 37°C resulted in a ≤0.3 slope of %-end label released per µg of BSA. Reaction volume of 50 µl.

References

(1) Gonzales, N., Wiggs, J., and Chamberline, M.J (1977) *Arch. Biochem. Biophys.* 182, 404-408