Restriction endonucleases that do not require BSA for optimal activity are not adversely affected if BSA is present in the reaction mixture.

1X NEBuffer EcoRI:
50 mM NaCl
100 mM Tris-HCl
10 mM MgCl₂
0.025% Triton X-100
pH 7.5 @ 25°C
Supplied as a 10X concentrated stock

Quality Control Assays
16-Hour Incubation: A 50 µl reaction containing this reaction buffer at a 1X concentration and 1 µg of HaeIII digested φX174 RF I DNA incubated for 16 hours resulted in no detectable non-specific nuclease degradation.

Endonuclease Activity: Incubation of this reaction buffer at a 1X concentration with 1 µg φX174 RF I DNA for 4 hours at 37°C in 50 µl reactions resulted in less than 5% conversion to RF II.