

## New England Biolabs Certificate of Analysis

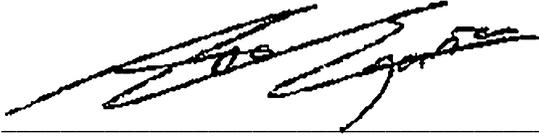
**Product Name:** *Nb.BsmI*  
**Catalog Number:** *R0706S*  
**Concentration:** *10,000 U/ml*  
**Unit Definition:** *One unit is defined as the amount of enzyme required to convert 1 µg of supercoiled pBR322 DNA to open circular form in 1 hour at 65°C in a total reaction volume of 50 µl.*  
**Packaging Lot Number:** *10239632*  
**Expiration Date:** *04/2026*  
**Storage Temperature:** *-20°C*  
**Storage Conditions:** *100 mM NaCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, 200 µg/ml BSA*  
**Specification Version:** *PS-R0706S/L v2.0*

| Nb.BsmI Component List |                       |            |                      |
|------------------------|-----------------------|------------|----------------------|
| NEB Part Number        | Component Description | Lot Number | Individual QC Result |
| R0706SVIAL             | Nb.BsmI               | 10233828   | Pass                 |
| B6003SVIAL             | NEBuffer™ r3.1        | 10227734   | Pass                 |

| Assay Name/Specification  | Lot # 10239632 |
|---|----------------|
| <b>Exonuclease Activity (Radioactivity Release)</b><br>A 50 µl reaction in NEBuffer 3.1 containing 1 µg of a mixture of single and double-stranded [ <sup>3</sup> H] E. coli DNA and a minimum of 100 units of Nb.BsmI incubated for 4 hours at 65°C releases <0.1% of the total radioactivity.   | <b>Pass</b>    |
| <b>Non-Specific DNase Activity (16 Hour)</b><br>A 50 µl reaction in NEBuffer 3.1 containing 1 µg of pBR322 DNA and a minimum of 10 Units of Nb.BsmI incubated for 16 hours at 65°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis. | <b>Pass</b>    |

This product has been tested and shown to be in compliance with all specifications.

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10 Apr 2024



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