

*be* INSPIRED *drive* DISCOVERY *stay* GENUINE

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

## New England Biolabs Certificate of Analysis

| Product Name:          | SnaBl  |
|------------------------|--|
| Catalog Number:        | R0130L   |
| Concentration:         | 5,000 U/ml   |
| Unit Definition:       | One unit is defined as the amount of enzyme required to digest 1 $\mu$ g of T7 DNA in 1 hour at 37°C in a total reaction volume of 50 $\mu$ l. |
| Packaging Lot Number:  | 10054982   |
| Expiration Date:       | 09/2021  |
| Storage Temperature:   | -20°C  |
| Storage Conditions:    | 50 mM NaCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50%<br>Glycerol, 200 μg/ml BSA   |
| Specification Version: | PS-R0130S/L v1.0   |

| SnaBI Component List   |                       |            |                      |  |
|------------------------|-----------------------|------------|----------------------|--|
| <b>NEB Part Number</b> | Component Description | Lot Number | Individual QC Result |  |
| R0130LVIAL             | SnaBl                 | 10054984   | Pass                 |  |
| B7204SVIAL             | CutSmart® Buffer      | 10046090   | Pass                 |  |

| Assay Name/Specification  | Lot # 10054982 |
|---|----------------|
| Endonuclease Activity (Nicking)<br>A 50 µl reaction in CutSmart™ Buffer containing 1 µg of supercoiled PhiX174 DNA and<br>a minimum of 5 Units of SnaBI incubated for 4 hours at 37°C results in <20%<br>conversion to the nicked form as determined by agarose gel electrophoresis.                      | Pass           |
| Exonuclease Activity (Radioactivity Release)<br>A 50 µl reaction in CutSmart™ Buffer containing 1 µg of a mixture of single and<br>double-stranded [ <sup>3</sup> H] E. coli DNA and a minimum of 50 units of SnaBI incubated for 4<br>hours at 37°C releases <0.1% of the total radioactivity.           | Pass           |
| Ligation and Recutting (Terminal Integrity)<br>After a 20-fold over-digestion of T7 DNA with SnaBI, >95% of the DNA fragments can<br>be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated fragments, >95%<br>can be recut with SnaBI.  | Pass           |
| Non-Specific DNase Activity (16 Hour)<br>A 50 µl reaction in CutSmart <sup>™</sup> Buffer containing 1 µg of T7 DNA and a minimum of 5<br>units of SnaBI incubated for 16 hours at 37°C results in a DNA pattern free of<br>detectable nuclease degradation as determined by agarose gel electrophoresis. | Pass           |





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

Stephanie Onet

Stephanie Cornelio Production Scientist 11 Sep 2019

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Minichiello Packaging Quality Control Inspector 06 Nov 2019

