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## New England Biolabs Certificate of Analysis

Product Name: SalI

Catalog #: R0138T/M
Concentration: 100,000 units/ml

Unit Definition: One unit is defined as the amount of enzyme required to digest 1 µg of Lambda DNA (HindIII digest) in 1 hour at 37°C in a

total reaction volume of 50 µl.

 Lot #:
 0541606

 Assay Date:
 06/2016

 Expiration Date:
 6/2018

 Storage Temp:
 -20°C

Storage Conditions: 50 mM KCl, 10 mM Tris-HCl (pH 7.5), 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, 300 µg/ml BSA

Specification Version: PS-R0138T/M v1.0

Effective Date: 25 Jun 2013

| Assay Name/Specification (minimum release criteria)  | Lot #0541606 |
|--|--------------|
| <b>Blue-White Screening (Terminal Integrity)</b> - A sample of pUC19 vector linearized with a 10-fold excess of SalI, religated and transformed into an <i>E. coli</i> strain expressing the LacZ beta fragment gene results in <1% white colonies.  | Pass         |
| <b>Exonuclease Activity (Radioactivity Release)</b> - A 50 $\mu$ l reaction in NEBuffer 3.1 containing 1 $\mu$ g of a mixture of single and double-stranded [ $^3$ H] <i>E. coli</i> DNA and a minimum of 100 units of SalI incubated for 4 hours at 37°C releases <0.1% of the total radioactivity. | Pass         |
| <b>Ligation and Recutting (Terminal Integrity)</b> - After a 20-fold over-digestion of Adenovirus-2 DNA with SalI, >95% of the DNA fragments can be ligated with T4 DNA ligase in 4 hours at 25°C. Of these ligated fragments, >95% can be recut with SalI.  | Pass         |
| <b>Non-Specific DNase Activity (16 Hour)</b> - A 50 μl reaction in NEBuffer 3.1 containing 1 μg of pBR322 DNA and a minimum of 20 units of SalI incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.        | Pass         |

<sup>\*</sup> The BSA in this product has been granted an EDQM "Certificate of Suitability" from the European Directorate for the Quality of Medicines (# R1-CEP-2003-204-Rev00) and has been granted a USDA Certificate for Export of Bovine Blood Plasma/Serum for Manufacture into Pharmaceutical Products.

Authorized by Derek Robinson 25 Jun 2013

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Quality





Inspected by Jianying Luo 22 Jun 2016