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New England Biolabs Certificate of Analysis

| Product Name: | SalI |
|------------------------|---|
| Catalog #: | R0138S/L |
| Concentration: | 20,000 units/ml |
| Unit Definition: | One unit is defined as the amount of enzyme required to digest 1 μ g of Lambda DNA (HindIII digest) in 1 hour at 37°C in a total reaction volume of 50 μ l. |
| Lot #: | 0541312 |
| Assay Date: | 12/2013 |
| Expiration Date: | 12/2015 |
| 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-R0138S/L v1.0 |
| Effective Date: | 25 Jun 2013 |

| Assay Name/Specification (minimum release criteria) | Lot #0541312 |
|--|--------------|
| Blue-White Screening (Terminal Integrity) - 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 |
| Exonuclease Activity (Radioactivity Release) - A 50 μ l reaction in NEBuffer 3.1 containing 1 μ 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 |
| Ligation and Recutting (Terminal Integrity) - 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 |
| Non-Specific DNase Activity (16 Hour) - A 50 μ l reaction in NEBuffer 3.1 containing 1 μ g 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 |

* 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.

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Authorized by Derek Robinson 25 Jun 2013



Carty Shea Inspected by

Inspected by Cathy Shea 19 Dec 2013