### Assay Name/Specification (minimum release criteria)

<table>
<thead>
<tr>
<th>Assay Name/Specification</th>
<th>Lot #0321509</th>
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</thead>
<tbody>
<tr>
<td><strong>Exonuclease Activity (Radioactivity Release)</strong></td>
<td><strong>Pass</strong></td>
</tr>
<tr>
<td><strong>Ligation and Recutting (Terminal Integrity)</strong></td>
<td><strong>Pass</strong></td>
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<td><strong>Non-Specific DNase Activity (16 Hour)</strong></td>
<td><strong>Pass</strong></td>
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</tbody>
</table>

- **Exonuclease Activity (Radioactivity Release)** - A 50 µl reaction in NEBuffer 3.1 containing 1 µg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 50 units of AflIII incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.
- **Ligation and Recutting (Terminal Integrity)** - After a 5-fold over-digestion of Lambda DNA with AflIII, >95% of the DNA fragments can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated fragments, >95% can be recut with AflIII.
- **Non-Specific DNase Activity (16 Hour)** - A 50 µl reaction in NEBuffer 3.1 containing 1 µg of Lambda DNA and a minimum of 30 Units of AflIII incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.

*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**
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12 Apr 2013

**Inspected by**
Toby Claus
22 Sep 2015