Assay Name/Specification (minimum release criteria)

<table>
<thead>
<tr>
<th>Assay Name/Specification</th>
<th>Lot #2431803</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A260/A280 Assay</strong> - The ratio of UV absorption of ( \Phi X174 ) DNA-Hae III Digest at 260 and 280 nm is between 1.8 and 2.0.</td>
<td>Pass</td>
</tr>
<tr>
<td><strong>DNA Concentration (A260)</strong> - The concentration of ( \Phi X174 ) DNA-Hae III Digest is between 1000 and 1050 µg/ml as determined by UV absorption at 260 nm.</td>
<td>Pass</td>
</tr>
<tr>
<td><strong>Electrophoretic Pattern (Marker)</strong> - The banding pattern of ( \Phi X174 ) DNA-Hae III Digest on a 3% agarose gel shows discrete, clearly identifiable bands at each band of the marker, when stained with Ethidium Bromide at a concentration of 0.5 µg/ml.</td>
<td>Pass</td>
</tr>
<tr>
<td><strong>Non-Specific DNase Activity (DNA, 16 hour)</strong> - A 50 µl reaction in 1X NEBuffer 2 containing 5 µg of ( \Phi X174 ) DNA-Hae III Digest incubated for 16 hours at 37ºC results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.</td>
<td>Pass</td>
</tr>
</tbody>
</table>