## Related Products

<table>
<thead>
<tr>
<th>Product</th>
<th>Quantity</th>
<th>Cat. no.</th>
</tr>
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<tbody>
<tr>
<td>T4 DNA Ligase</td>
<td>250 units</td>
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</tr>
<tr>
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<td>1,000 U</td>
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<td>100 g</td>
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<td>TrackIt™ 1 Kb Plus DNA Ladder</td>
<td>100</td>
<td>10488-085</td>
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<tr>
<td>SYBR® Safe DNA Gel Stain (10,000X)</td>
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<td>S33102</td>
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<td>1 kit</td>
<td>G6511ST</td>
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### Technical Support

For technical support, email tech_support@invitrogen.com or visit www.invitrogen.com

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### Sal I

- **Cat. no.** 15217-011
- **Size:** 1,000 Units
- **Store at −20°C**
- **10X Loading Buffer:** 1 mL
- **Cleavage Site:**
  
  5′ − G ↓ TCGA C − 3′
  
  3′ − C ↑ AGCT G − 5′

### Restriction Enzyme Reaction Mix

#### Sal I

- **1 μL**
- **10X Buffer H:** 2 μL
- **Substrate DNA:** ≤ 1 μg
- **Sterile water:** to 20 μL

#### Incubate at 37°C.

To use the loading buffer, add 1/10 volume of 10X Loading Buffer to an aliquot of the reaction mix, load on to an agarose gel, and analyze by electrophoresis.


### Intended Use

For research use only. Not intended for any animal or human therapeutic or diagnostic use.

Doc. no. MAN0001201 Rev. 21 Apr 2010

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### Important!

Includes new buffers! Review instructions before use.
**Note:** SDS in the loading buffer may precipitate during storage at room temperature. Warm the buffer to dissolve any SDS precipitate before use.

**Source**

*Streptomyces albus* G

**Unit Definition**

One unit is the amount of enzyme required to completely digest 1 μg of λDNA in 50 μL of the reaction mixture in 1 hour at 37°C.

**Relative Activity in Universal Buffers**

<table>
<thead>
<tr>
<th>Buffer Compositions</th>
<th>10X Buffer H</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 mM Tris-HCl, pH 7.5</td>
<td></td>
</tr>
<tr>
<td>100 mM MgCl₂</td>
<td></td>
</tr>
<tr>
<td>10 mM Dithiothreitol</td>
<td></td>
</tr>
<tr>
<td>1,000 mM NaCl</td>
<td></td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Storage Buffer</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 mM Tris-HCl, pH 7.5</td>
</tr>
<tr>
<td>400 mM KCl</td>
</tr>
<tr>
<td>0.1 mM EDTA</td>
</tr>
<tr>
<td>1 mM DTT</td>
</tr>
<tr>
<td>0.01% BSA</td>
</tr>
<tr>
<td>50% (v/v) glycerol</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Loading Buffer</th>
</tr>
</thead>
<tbody>
<tr>
<td>1% SDS</td>
</tr>
<tr>
<td>50% glycerol</td>
</tr>
<tr>
<td>0.05% Bromophenol blue</td>
</tr>
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**Product Qualification**

Certificate of Analysis is available from [www.invitrogen.com/support](http://www.invitrogen.com/support). Search for the certificate of analysis by product lot number, which is printed on the box.

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**Buffer Compositions**

**10X Buffer H**

500 mM Tris-HCl, pH 7.5
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1,000 mM NaCl

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<th>M</th>
<th>H</th>
<th>K</th>
<th>T (+BSA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Relative Activity (%)</td>
<td>&lt;20</td>
<td>&lt;20</td>
<td>100</td>
<td>20*</td>
<td>&lt;20</td>
</tr>
</tbody>
</table>

*Weak star activity is detected.

Inactivation by Heat
Enzyme is inactivated by heating at 65°C for 20 minutes.

Effect of DNA Methylation
Enzyme activity is affected by CG methylase.

Star Activity
Unrelated site may be cut in the presence of high concentration of glycerol.

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**Sal I**

Cat. no. 15217-011

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10X Loading Buffer: 1 mL

Cleavage Site:

5′-G↓TCGA C-3′  
3′-C AGCT↓G-5′

Restriction Enzyme Reaction Mix

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Substrate DNA ≤ 1 μg  
Sterile water to 20 μL

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