Scientists have seized vigorously on the power and flexibility of the polymerase chain reaction (PCR), and this enthusiasm is generating a host of PCR-based and other amplification techniques as well as an extraordinary range of applications. Reports of these advances are currently scattered throughout the literature. The new international journal *PCR Methods and Applications* is the first peer-reviewed journal devoted exclusively to amplification methods and their use, providing a central source of reliable, independent, up-to-date information that investigators in every discipline can use.

*PCR Methods and Applications* publishes refereed research papers detailing improvements in PCR methodology and new amplification techniques, as well as papers describing the application of these methods to a wide variety of research problems. These papers are supplemented by commissioned review articles, commentaries, and technical tips.

Issues of the journal are widely distributed among PCR users. Review articles in these issues cover topics such as:

- methods for sequencing PCR products
- PCR and environmental pathogens
- PCR-based HLA class II typing
- the ligase chain reaction
- sequence tagged sites and genomic mapping
- PCR techniques in phylogenetic studies
- ALU PCR
- PCR and the molecular diagnosis of cancer
- PCR analysis of ancient DNA
- single-stranded conformation polymorphisms
- PCR detection of mutations
- HPV detection and analysis with PCR
YES, QUALITY IS YOUR FIRST CHOICE FOR RNase H!!

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**Convenient:**
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<table>
<thead>
<tr>
<th>Lane</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>The protein standards for molecular weight markers</td>
</tr>
<tr>
<td>2</td>
<td>The total soluble proteins from E. coli clone</td>
</tr>
<tr>
<td>3</td>
<td>The proteins purified by the first ion exchange chromatography</td>
</tr>
<tr>
<td>4</td>
<td>The more purified proteins by the second ion exchange chromatography</td>
</tr>
<tr>
<td>5</td>
<td>The purified RNase H by the final purification of gel filtration</td>
</tr>
<tr>
<td>6</td>
<td>Same as Lane 1</td>
</tr>
</tbody>
</table>

Ribonuclease H from E. coli is an endonuclease that specifically degrades the RNA strand of DNA-RNA hybrids. RNase H is a key enzyme in several procedures including:

- Amplification by self-sustained sequence replication (3SR)
- cDNA synthesis and cloning where it is used to remove mRNA during second strand cDNA synthesis
- Removal of poly (A) tails of mRNAs after hybridization with poly dT

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