



# Ribozyme Cleavage

By Anonym

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 Methodenmodul Nukleinsäuren, language: English, abstract: The  
 hammerhead ribozyme is a catalytic active RNA molecule that  
 catalyzes the cleavage of RNA. This reaction is part of the in vivo  
 self-cleavage mechanism that is observed in the rolling cycle  
 replication mechanism of viroids. The chemically synthesized  
 hammerhead ribozyme that is used in this experiment forms of  
 two RNA strands that harbor the catalytic activity and a  
 substrate RNA strand as shown in figure 1. In the presence of  
 MgCl<sub>2</sub>, the ribozyme adopts its active conformation and cleaves  
 substrate strand. In order to demonstrate the cleavage, the  
 substrate strand is radioactively labeled with <sup>32</sup>P at the 5' end by  
 T4 polynucleotide kinase. 16 pp. Englisch.



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