

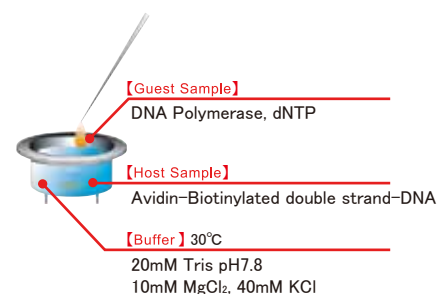
Application Note

A-06

Analysis of DNA Elongation Reaction

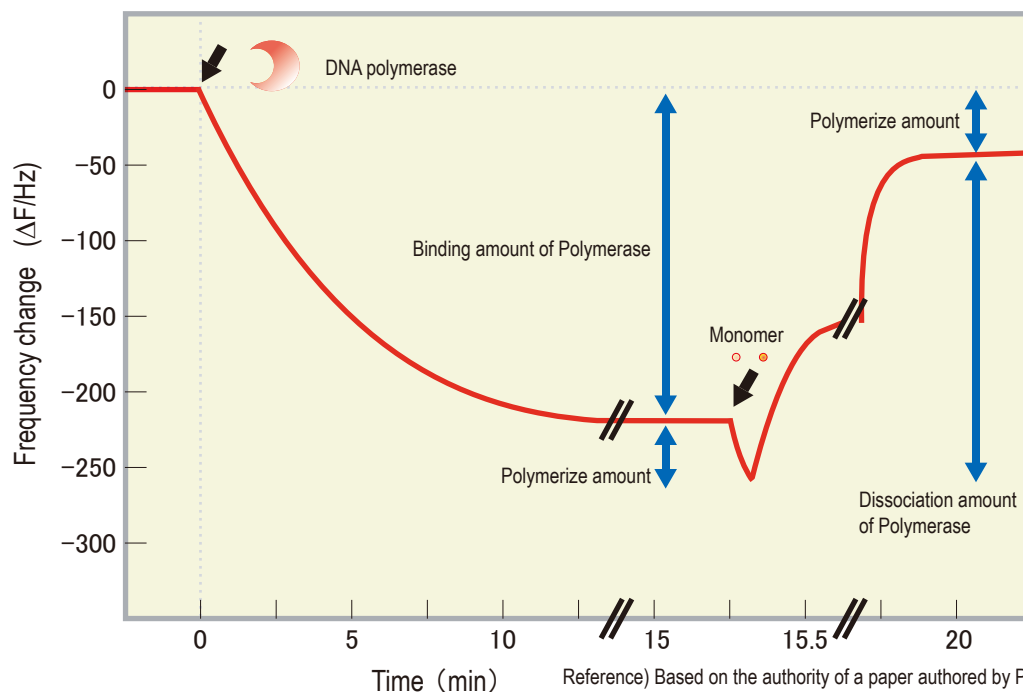
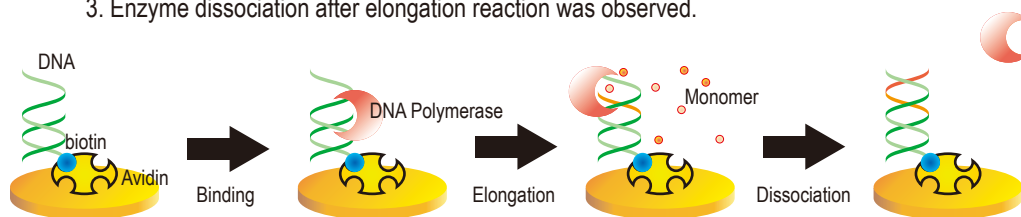
Materials

1. Avidin
2. Biotinylated DNA (double strand have overhang)
3. E. coli DNA polymerase (klenow fragment)
4. Monomer (dNTP [N=A, G, C, T])



Results

1. Binding between an enzyme per 3 chains of DNA was observed.
2. Elongation reaction of DNA upon monomer addition was observed.
3. Enzyme dissociation after elongation reaction was observed.



Reference) Based on the authority of a paper authored by Prof. Okahata of Tokyo Institute of Technology. **J. Am. Chem. Soc.*, 120, 33, 8537-8538

Applications

1. Kinetic analysis of enzyme reaction on DNA.
2. Monitoring of glycosylase reactions.
3. Monitoring of protease reactions.

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