

# Isotherm3G

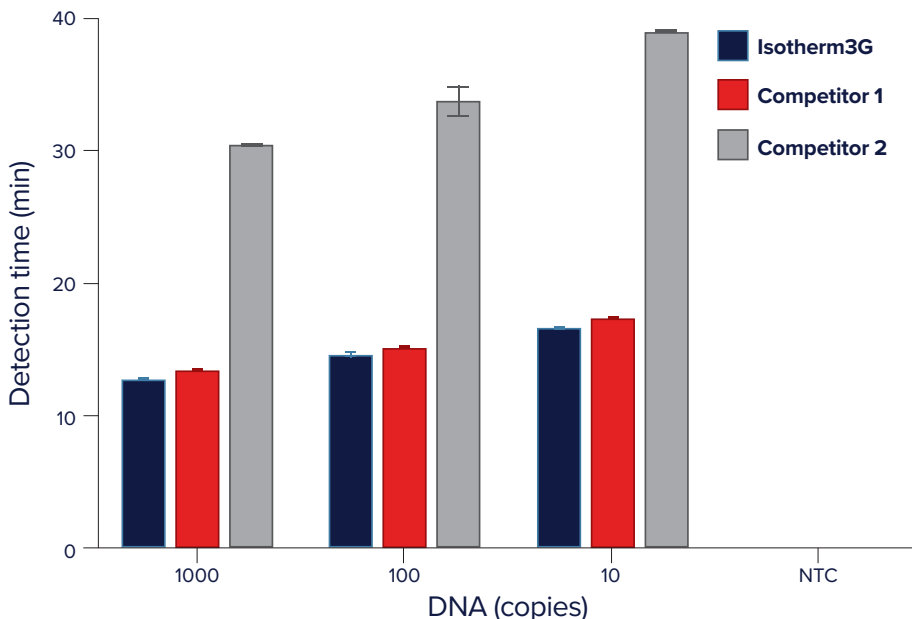
## DNA Polymerase

Pack size:  
#8701S, 1600 U  
#8701M, 8000 U

### Fast and specific isothermal LAMP amplification from both DNA and RNA

- Unique mesophilic DNA Polymerase that synthesizes DNA from both DNA and RNA templates.
- High strand displacement activity and 5' to 3' polymerase activity, lacks any exonuclease activity.
- **Specific and fast detection without false amplification.**
- Suitable for isothermal LAMP amplification and real-time detection upon dye addition. **Simple single-enzyme RT-LAMP reactions.**
- Operational temperature range
  - Typical running temperature of 65°C.
  - Active at a wide range of temperatures from 60°C to 68°C.
  - Inactivation at temperatures higher than or equal to 80°C.
- **Developed and manufactured under ISO13485.**

### DNA detection: Isotherm3G DNA Polymerase competitors in a LAMP reaction

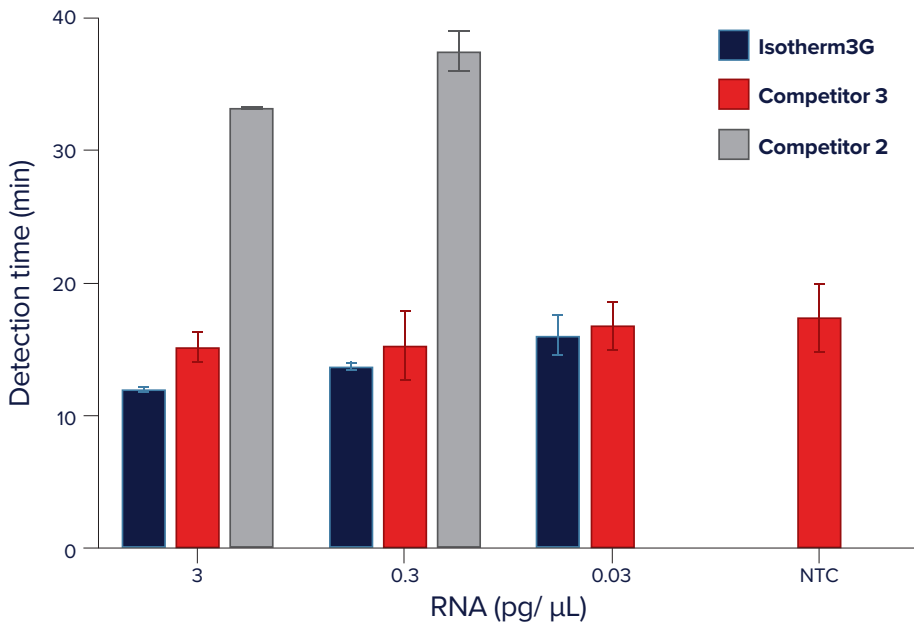


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**RNA detection:** Isotherm3G DNA Polymerase vs competitors in an RT-LAMP reaction



- Isotherm3G DNA Polymerase is faster than the competitors in detecting DNA and RNA
- Competitor 3 generates false positive results in all RT-LAMP NTC reactions, whereas Isotherm3G DNA Polymerase gives no signal and is more specific than the competitor.

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