



## ThermaGo™ Instructions for Use.

To prepare a 5 Units/ $\mu$ l ThermaGo stock:

### PREPARATION:

- To prepare a 5 Units/ $\mu$ l ThermaGo stock:
- Centrifuge ThermaGo tube briefly to insure the dried reagent is at the bottom of the tube.
- Add 500  $\mu$ l sterile molecular-grade 10 mM Tris-Cl, pH 8.3.
- Vortex tube for at least 1-2 minutes.
- Allow tube to sit at room temperature for six hours (or overnight) with occasional mixing to insure reagent is completely dissolved.
- Vortex an additional minute, then centrifuge briefly.
- Aliquot into smaller volumes, if desired.

### RECOMMENDED STORAGE CONDITIONS:

- ThermaGo can be stored at 4°C or -20°C in dark (or light protected) tubes.
- If frozen, divide stock into small volume aliquots to avoid freezing and thawing more than 5 times.

### USE:

- Add a number of units of ThermaGo equal to the number of units of Taq DNA polymerase in the amplification reaction.
  - Example: For 25  $\mu$ l reactions containing 1 unit of Taq DNA polymerase (0.2  $\mu$ l of 5 Units/ $\mu$ l Taq DNA polymerase) add 1 unit of ThermaGo (0.2  $\mu$ l of 5 Units/ $\mu$ l ThermaGo).
- ThermaGo dramatically improves Taq DNA polymerase specificity. For targets containing known mis-matches with the primers there may be a delayed amplification or failure to amplify.
- In some cases, it may be necessary to titrate the amount of ThermaGo between 0.5 - 2.0 units of ThermaGo per unit of Taq DNA polymerase to obtain improved product specificity without reducing amplification efficiency.
- ThermaGo can be used in combination with ThermaStop.
- ThermaGo is not recommended for use in one-step rt-PCR.