RockStart Cat#: Rock100



Amount: 1 ml RockStart Buffer, 1 ml TAT control buffer, 1 ml 35 mM Magnesium Chloride(sufficient for 100 50ul reactions)Shipping conditions: AmbientShelf life: At least 1 year from date of receipt under proper storage conditions.

PRODUCT DESCRIPTION:

RockStart PCR Buffer is a patented hot-start system that provides a hot start for the enzyme of your choice. The buffer precipitates magnesium during reaction set-up. Upon normal cycling, the magnesium is freed. No initial soak at 95 degrees is necessary. The system is effective with all DNA polymerases tested.

10X RockStart Buffer composition is: 250 mM Tris-base, 50 mM H3PO4, 160 mM ammonium sulfate, and 1% Tween 20.

10X TAT Control Buffer composition is: 250 mM Tris-Cl pH 8.8, 160 mM ammonium sulfate, and 1% Tween 20. 35 mM magnesium chloride also provided.

SUGGESTED PROCEDURE for a 50ml reaction:

1. Add 5 ul 10x Rock Start buffer to reaction tube (or 10X TAT buffer for a cold-start control reaction)

- 2. Add 5 ul 35 mM Magnesium Chloride
- 3. Wait at least 15 minutes.
- 4. Ice set-up is not strictly required but is recommended
- 5. Add 40 ul mix of everything else for your reaction.

6. Start cycling the PCR reaction. The magnesium will be freed within the first few cycles. No initial soak at 95 degrees is necessary.

**Note: Do not attempt to make a master mix of RockStart and Magnesium Chloride. Once the Magnesium precipitate forms, it is not possible to accurately aliquot it to an array of tubes. Therefore each reaction tube must receive the RockStart and Magnesium individually.

QUALITY CONTROL:

Each lot of RockStart buffer is tested for its ability to provide a hot-start with one or more human or bacterial targets known to exhibit wrong bands, or compromised products under normal-start conditions. Please inquire for details.

Please visit us on the web at www.klentaq.com for troubleshooting and detailed protocols.