

RockStart

Hot-Start Buffer for PCR

Amount: 1 ml RockStart Buffer, 1 ml TAT control buffer, 1 ml 35 mM magnesium chloride

Shipping conditions: Ambient

Storage conditions: 4°C

Shelf life: At least 1 year 4°C.

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. Includes buffer and magnesium sufficient for 200 50ul reactions.

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

10X TAT 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 50µl reaction:

1. Add 5 ul 10x Rock Start buffer to reaction tube
[or 10X TAT buffer for a normal-start control reaction]
2. Add 5 ul 10x MgCl₂
3. Wait 15 minutes or one week. Have a latte.
4. Don't worry about ice.
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.

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.

REFERENCES:

Barnes W.M. and Rowlyk K.R. Magnesium precipitate hot start method for PCR.
Mol Cell Probes. 2002 Jun;16(3):167-71.

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

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