

Product Stability Report

Blastaq™ HotStart 2X PCR MasterMix

Cat. No. G598



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Purpose

To test the stability of **Blastaq™ HotStart 2X PCR MasterMix** under several conditions

Method

Blastaq™ HotStart 2X PCR MasterMix was subjected to the following conditions:

- Freeze Thaw (20 cycles)
- 4°C (1 Day, 3 Days, 7 Days)
- 20°C (1 Day, 3 Days, 7 Days)

The PCR reactions were assembled according to G598 Product Datasheet. Negative control reactions (NTCs) received an equal volume of nuclease-free water instead of the template. The freeze-thaw results were compared to an identical tester that did not undergo any treatment. The results from the “Elevated Temperature” Test were compared against **Blastaq™ HotStart 2X PCR MasterMix** stored under standard conditions (-20 °C). All reactions were subjected to agarose gel electrophoresis (25 µl load).

Result

Blastaq™ HotStart 2X PCR MasterMix samples with comparable PCR amplification activity to the control are noted as a “Pass” and any condition that is showing less activity is noted with “Decrease in activity”.

Sample Name	20 X	1 Day	3 Days	7 Days
Freeze-thaw	Pass	--	--	--
4 °C	--	Pass	Pass	Pass
20 °C	--	Pass	Pass	Pass

Conclusion

Blastaq™ HotStart 2X PCR MasterMix is stable and still retains full functionality after 7 days at 4°C and 20°C and after 20 cycles of freeze-thaw.

The product has been tested and shown to be in compliance with all specifications.