Product Stability Report

OneScript® Hot 5X RT MasterMix

Cat. No. G590

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Purpose

To test the stability of OneScript® Hot 5X RT MasterMix under several conditions

Method

OneScript® Hot 5X RT 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)

RT reactions were prepared according to the G590 Product Datasheet with HEK293T RNA as the template. Following this, two separate qPCR premix solutions were prepared: one targeting a housekeeping gene and the other aiming at a non-housekeeping gene, using BlasTaq™ 2X qPCR MasterMix (G891). The RT products were diluted at a 1:5 ratio, and 5 µl was added to each reaction. Negative control reactions (NTCs) received an equal volume of nuclease-free water instead of the template. Each reaction was performed in duplicate, and results were compared with those from an identical tester that did not undergo any freeze-thaw cycles.

Result

OneScript® Hot 5X RT MasterMix samples with comparable RT 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	Decrease in activity	Decrease in activity

Conclusion

OneScript® Hot 5X RT MasterMix is stable and still retains full functionality after 7 days at 4°C and after 20 cycles of freeze-thaw. However, a decrease in activity is noted after 3 days of incubation at 20 °C.

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