

qNTQX® Universal TaqMan Pro U+ qPCR Mix (One Tube) - LM203026

Premix Stability

Based on the stability assessment of the premix reagent, the LM203026 reagent was subjected to three different treatment conditions (4°C, 37°C, and freeze-thaw cycles). The experimental groups were treated at 4°C and 37°C for 7 days and subjected to 50 freeze-thaw cycles, while the control group was stored at -20°C. Stability evaluation was conducted using four multiplex amplification systems (Groups 1, 2, and 4 with quadruplex amplification, and Group 3 with triplex amplification).

The results demonstrated that the Ct value deviation (ΔCt) between the experimental and control groups remained within ± 0.5 , and the fluorescence intensity deviation was within 15%. These findings confirm that qNTQX®'s premix reagent exhibits outstanding stability in multiplex amplification.

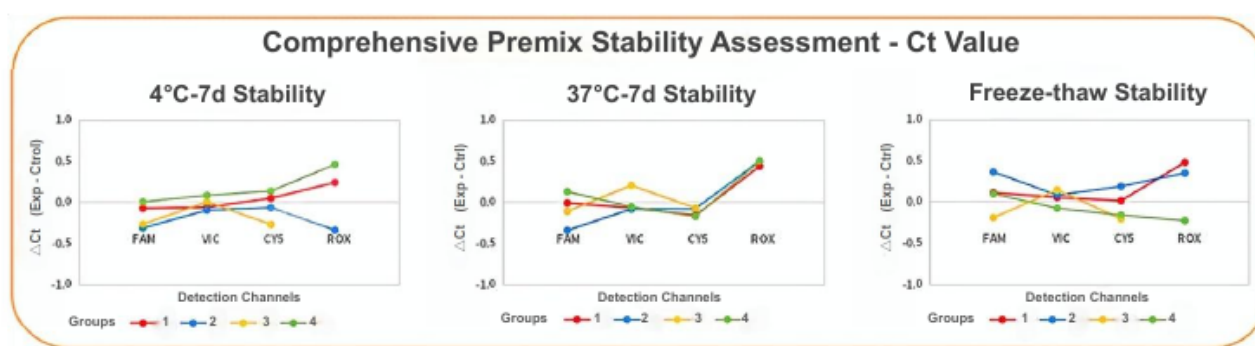


Fig. 1. Comprehensive premix stability assessment - Ct value deviation (ΔCt , Exp - Ctrl) across FAM/VIC/CYS/ROX detection channels under 4°C-7d, 37°C-7d and freeze-thaw conditions (Groups 1-4).

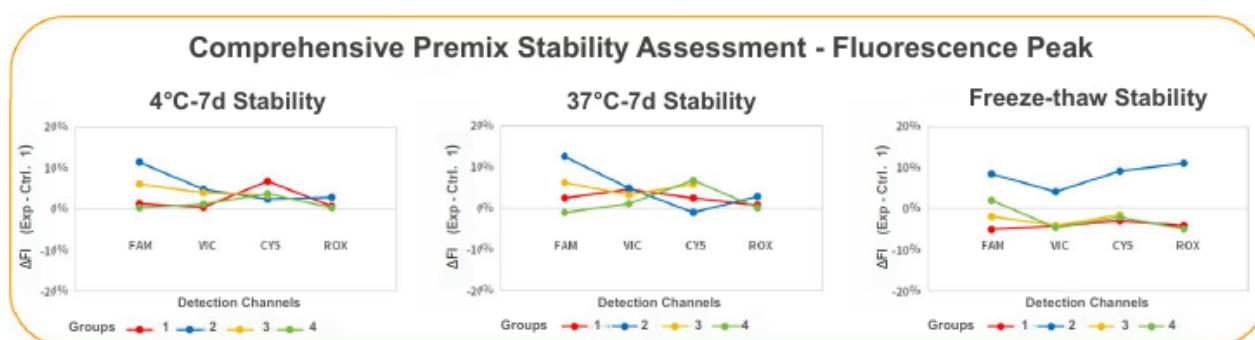


Fig. 2. Comprehensive premix stability assessment - fluorescence peak deviation (ΔFI , Exp - Ctrl) across FAM/VIC/CYS/ROX detection channels under 4°C-7d, 37°C-7d and freeze-thaw conditions (Groups 1-4).