

Color Compensation Set 1 Ready Reference Guide

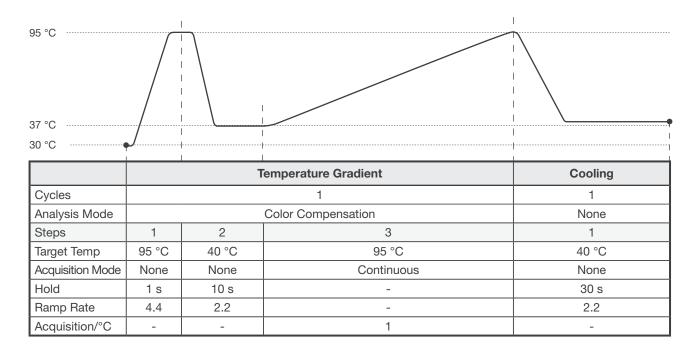
Revision A, December 2023

Product No. KIT230004

Color compensation set for the generation of color compensation objects for the LightCycler® 480 System. The set is designed for 5 calibration runs.

PROGRAM SETUP

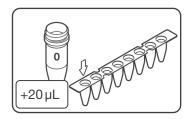
Program the LightCycler® 480 instrument as shown below before preparing the calibration mixes.



Parameter	Setting Multi Color HybProbe	Name	Melt Factor	Quant Factor	Max Integration Time (seconds)
	-				
Detection Format	465 - 510	Fluos	2	1.5	2
	498 - 610	Red 610	1.2	5	2
	498 - 640	Red 640	1.2	5	2
	498 - 660	Cy5(.5)	1.2	5	2
Block Size	96				
Reaction Volume	20 uL				

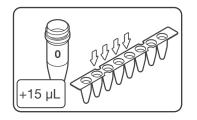
PREPARATION OF THE PCR MIX

Take appropriate precautions to prevent contamination, e.g., by using filter tips and wearing gloves. Thaw reagents, mix (do not vortex!), and briefly spin vials before opening. Please use white plates or 8-strip tubes, the same ones you would usually use for your LightCycler® 480 instrument.



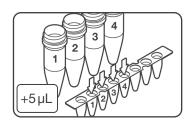
1. ADD BLANK TO FIRST WELL

Pipet 20 µL of Blank (vial 0, white cap) into first well.



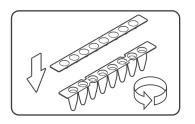
2. ADD BLANK TO ADDITIONAL WELLS

Pipet 15 µL of Blank (vial 0, white cap) into second, third, fourth and fifth well.



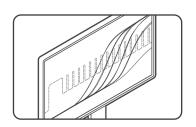
ADD CALIBRATOR DYES

Pipet 5 μ L of Calibrator 1 (yellow cap), Calibrator 2 (red cap), Calibrator 3 (purple cap) and Calibrator 4 (blue cap) into second, third, fourth and fifth well, respectively.



4. SEAL & CENTRIFUGE

Seal strips accurately and briefly spin strips/plate in a suitable centrifuge.



5. CYCLE SAMPLES

Insert the PCR strips into a support frame matching LightCycler® plates and load to the instrument.

Cycle the samples as described.

Vials	Dominant Channel		
0	Water		
1	Fluos		
2	Red 610		
3	Red 640		
4	Cy5(.5)		

6. ANALYSIS

In the Subset Editor, create a new subset for the Color Compensation reactions. In the Sample Editor, define the dominant channel for each position. Select 'Color Compensation' from the analysis menu, click 'Calculate' and then click the 'Save CC Object' button.



