Settings for 4plex real-time PCR kits

March 2021

Brand	Device	4plex kits			
		Parameter	Reporter Dye Manual	Setting channel/dyes	Note
Applied Biosystems/ LifeTechnologies/ ThermoFisher Scientific	7000	It is not possible to use 4plex kits!			
	7300	It is not possible to use 4plex kits!			
	7500 / 7500 Fast (Please note for **S6121**: The internal animal and amplification control will be detetced in the Cy5 channel!)	detection system 1	FAM	FAM	Please choose for all quencher dyes the software setting "none". Change the "passive reference dye" setting from "ROX" to "none".
		detection system 2	ROX	ROX	
		detection system 3	Cy5	Cy5	
		internal amplification control	VIC	VIC	
	7700	It is not possible to use 4plex kits!			
	7900	It is not possible to use 4plex kits!			
	StepOne™	It is not possible to use 4plex kits!			
	StepOnePlus™	It is not possible to use 4plex kits!			
	ViiA7™ (Please note for **S6121**: The internal animal and amplification control will be detetced in the Cy5 channel!)	detection system 1	FAM	FAM	Please choose for all quencher dyes the software setting "none". Change the "passive reference dye" setting from "ROX" to "none".
		detection system 2	ROX	ROX	
		detection system 3	Cy5	Cy5	
		internal amplification control	VIC	VIC	
Agilent	Mx3000P™, Mx3005P™, Mx4000™ (Please note for **S6121**: The internal animal and amplification control will be detetced in the Cy5 channel!)	detection system 1	FAM	FAM	Please select "Quantitative PCR (multiple standards)" as experiment type. Please select "none" as reference dye. For the FAM, HEX, ROX and Cy5 channel the Filter Set Gain Setting has to be modified to "x1".
		detection system 2	ROX	ROX	
		detection system 3	Cy5	Cy5	
		internal amplification control	VIC	HEX	

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Analytik Jena	Q-Tower2 (Please note for **S6121**: The internal animal and amplification control will be detetced in the Cy5 channel!)	detection system 1	FAM	FAM	Please use clear plates!
		detection system 2	ROX	ROX	
		detection system 3	Cy5	Cy5	
		internal amplification control	VIC	VIC	
BioRad	MyiQ	It is not possible to use 4plex kits!			
	iCycler	It is not possible to use 4plex kits!			
	MyiQ2	It is not possible to use 4plex kits!			
	MiniOpticon	It is not possible to use 4plex kits!			
	DNA Engine Opticon 2	It is not possible to use 4plex kits!			
BioRad	iQ5 (Please note for **S6121**: The internal animal and amplification control will be detetced in the Cy5 channel!)	detection system 1	FAM	FAM	-
		detection system 2	ROX	ROX	
		detection system 3	Cy5	Cy5	
		internal amplification control	VIC	VIC	
	CFX96 (Please note for **S6121**: The internal animal and amplification control will be detetced in the Cy5 channel!)	detection system 1	FAM	FAM	-
		detection system 2	ROX	ROX	
		detection system 3	Cy5	Cy5	
		internal amplification control	VIC	VIC	
	Chromo 4 (Please note for **S6121**: The internal animal and amplification control will be	detection system 1	FAM	FAM	-
		detection system 2	ROX	ROX	

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	detetced in the Cy5 channel!)	detection system 3	Cy5	Cy5	
		internal amplification control	VIC	VIC	
Cepheid	SmartCycler (Please note for **S6121**: The internal animal and amplification control will be detetced in the Cy5 channel!)	detection system 1	FAM	Kanal 1	Please use cooled tubes and racks for the PCR setup.
		detection system 2	ROX	Kanal 3	
		detection system 3	Cy5	Kanal 4	
		internal amplification control	VIC	Kanal 2	
Corbett	Rotor-Gene 3000, Rotor-Gene 6000 (= Qiagen Rotor-Gene Q) (Please note for **S6121**: The internal animal and amplification control will be detetced in the Cy5 channel!)	detection system 1	FAM	Green	Please use for the gain settings in all channels the value "5". Do not use the "Auto-Gain Optimisation" settings.
		detection system 2	ROX	Orange	
		detection system 3	Cy5	Red	
		internal amplification control	VIC	Yellow	
Eppendorf	realplex², realplex⁴	It is not possible to use 4plex kits!			
LifeTechnologies	*see Applied Biosystems*				
peqlab	peqSTAR96 (Please note for **S6121**: The internal animal and amplification control will be detetced in the Cy5 channel!)	detection system 1	FAM	FAM	-
		detection system 2	ROX	ROX	
		detection system 3	Cy5	Cy5	
		internal amplification control	VIC	VIC	

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Qiagen	Rotor-Gene Q (Please note for **S6121**: The internal animal and amplification control will be detetced in the Cy5 channel!)	detection system 1	FAM	Green	Please use for the gain settings in all channels the value "5". Do not use the "Auto-Gain Optimisation" settings. **It is recommend to use only 0,1 ml tubes.**
		detection system 2	ROX	Orange	
		detection system 3	Cy5	Red	
		internal amplification control	VIC	Yellow	
R-Biopharm	RIDA® CYCLER	detection system 1	FAM	Green	
		detection system 2	ROX	Orange	
		detection system 3	Cy5	Red	
		internal amplification control	VIC	Yellow	
Roche	LightCycler® 1.5	It is not possible to use 4plex kits!			
	LightCycler® 2.0	It is not possible to use 4plex kits!			
	LightCycler® 480 I (Please note for **S6121**: The internal animal and amplification control will be detetced in the Cy5 channel!)	detection system 1	FAM	450/500	A color compensation is necessary. The use of the SureCC Color Compensation Kit I is recommended.
		detection system 2	ROX	558/610	
		detection system 3	Cy5	615/670	
		internal amplification control	VIC	523/568	
	LightCycler® 480 II (Please note for S6121: The internal animal and amplification control will be detetced in the Cy5 channel!)	detection system 1	FAM	465/510	
		detection system 2	ROX	533/610	
		detection system 3	Cy5	618/660	
		internal amplification control	VIC	533/580	

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	cobas® z 480 Analyzer (Please note for **S6121**: The internal animal and amplification control will be detetced in the Cy5 channel!)	detection system 1	FAM	465/510	
		detection system 2	ROX	533-610	
		detection system 3	Cy5	610/670	
		internal amplification control	VIC	540/580	
Sacace Biotechnologies	SaCycler96 (Please note for **S6121**: The internal animal and amplification control will be detetced in the Cy5 channel!)	detection system 1	FAM	FAM	-
		detection system 2	ROX	ROX	
		detection system 3	Cy5	Cy5	
		internal amplification control	VIC	VIC	
Spartan	SpartanDX	It is not possible to use 4plex kits!			
Stratagene	*see Agilent*				

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