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## HTRF® Europium cryptate donor / Red acceptor readout Setup recommendations for Spark 20M

Two sequential measurements should be carried out: at 620 nm for the cryptate emission, and at 665 nm for the specific signal emitted by the acceptor (XL665 or d2). The ratio of the two fluorescence intensities 665/620 (acceptor/donor) enables the calculation of Delta F (%) which represents the relative energy transfer rate for each sample.

The spark 20M must be equipped with the HTRF® module. Spark 20M readers must be appropriately configured for HTRF® readout by setting up the measurement conditions in the Tecan i-Control<sup>TM</sup> software. In particular, these parameters should be entered as defined in the table below.

	Configuration of head optical for excitation and emission selection				
Configuations : (Excitation/Emission)	Filter/Filter (F/F)	Filter/Monochromator (F/M)	Monochromator/Filter (M/F)	Monochromator/Monochromator (M/M)	
Excitation wavelength	320nm/25nm	320nm/25nm	320nm/20nm	320nm/20nm	
Acceptor emission wavelength	665nm/8nm	665nm/10nm	665nm/8nm	665nm/10nm	
Donor emission wavelength	620nm/10nm	620nm/10nm	620nm/10nm	620nm/10nm	
Flashes	50	100	100	100	
Lag time	100μs	100μs	100μs	100μs	
Integration time	300μs	300μs	300μs	300μs	
Mirror	510 dichroic	510 dichroic	510 dichroic	510 dichroic	
Gain	Optimal gain	Optimal gain	Optimal gain	Optimal gain	
Z optimization	Calculated from well giving the highest signal				
Plate color	Black and white	Black and white	Black and white	White plate only	





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## HTRF® Terbium cryptate donor / Green acceptor readout Setup recommendations for Spark 20M

Two sequential measurements should be carried out at 620nm for the cryptate emission, and at 520nm for the specific signal emitted by the green acceptor. The ratio of the two fluorescence intensities 520/620 (acceptor/donor) enables the calculation of Delta F (%) which represents the relative energy transfer rate for each sample.

The spark 20M must be equipped with the HTRF® module. Spark 20M readers must be appropriately configured for HTRF® readout by setting up the measurement conditions in the Tecan i-Control<sup>TM</sup> software. In particular, these parameters should be entered as defined in the table below.

	Configuration of head optical for excitation and emission selection				
Configuations : (Excitation/Emission)	Filter/Filter (F/F)	Filter/Monochromator (F/M)	Monochromator/Filter (M/F)	Monochromator/Monochromator (M/M)	
Excitation wavelength	340nm/35nm	340nm/35nm	340nm/25nm	340nm/25nm	
Acceptor emission wavelength	520nm/10nm	520nm/10nm	520nm/10nm	520nm/10nm	
Donor emission wavelength	620nm/10nm	620nm/10nm	620nm/10nm	620nm/10nm	
Flashes	50	100	100	100	
Lag time	100μs	100μs	100μs	100μs	
Integration time	300μs	300μs	300μs	300μs	
Mirror	510 dichroic	510 dichroic	510 dichroic	510 dichroic	
Gain	Optimal gain	Optimal gain	Optimal gain	Optimal gain	
Z optimization	Calculated from well giving the highest signal				
Plate color	Black and white	Black and white	Black and white	White plate only	





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## HTRF® Terbium cryptate donor / Red acceptor readout Setup recommendations for Spark 20M

Two sequential measurements should be carried out at 620 nm for the cryptate emission, and at 665 nm for the specific signal emitted by the acceptor (XL665 or d2). The ratio of the two fluorescence intensities 665/620 (acceptor/donor) enables the calculation of Delta F (%) which represents the relative energy transfer rate for each sample.

The spark 20M must be equipped with the HTRF® module. Spark 20M readers must be appropriately configured for HTRF® readout by setting up the measurement conditions in the Tecan i-Control<sup>TM</sup> software. In particular, these parameters should be entered as defined in the table below.

	Configuration of head optical for excitation and emission selection				
Configuations : (Excitation/Emission)	Filter/Filter (F/F)	Filter/Monochromator (F/M)	Monochromator/Filter (M/F)	Monochromator/Monochromator (M/M)	
Excitation wavelength	340nm/35nm	340nm/35nm	340nm/25nm	340nm/25nm	
Acceptor emission wavelength	665nm/8nm	665nm/10nm	665nm/8nm	665nm/10nm	
Donor emission wavelength	620nm/10nm	620nm/10nm	620nm/10nm	620nm/10nm	
Flashes	50	100	100	100	
Lag time	100μs	100μs	100μs	100μs	
Integration time	300μs	300μs	300μs	300µs	
Mirror	510 dichroic	510 dichroic	510 dichroic	510 dichroic	
Gain	Optimal gain	Optimal gain	Optimal gain	Optimal gain	
Z optimization	Calculated from well giving the highest signal				
Plate color	Black and white	Black and white	Black and white	White plate only	

