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HTRF® Europium cryptate donor / Red acceptor readout Setup recommendations for Safire^{2TM}

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.

Safire^{2TM} readers must be appropriately configured for HTRF® readout by setting up the measurement conditions in the "multilabeling" function of Xfluor4 or Magellan software. In particular, these parameters should be entered as below. No special upgrade is required for HTRF® readout, as it is a monochromator-based instrument:

Me			

Integration time

Gain

Z position

Excitation wavelength	317 nm	
Excitation bandwidth	20 nm	
Emission wavelength	620 nm	
Emission bandwidth	10 nm	
Number of reads	100	
Lag time	60 µs	
Integration time	500 μs	
Gain	Optimal	
Z position	Optimal	
Z position Measurement 2	Optimal	
•	Optimal 317 nm	
Measurement 2		
Measurement 2 Excitation wavelength	317 nm	
Measurement 2 Excitation wavelength Excitation bandwidth	317 nm 20 nm	
Measurement 2 Excitation wavelength Excitation bandwidth Emission wavelength	317 nm 20 nm 665 nm	

500 µs

Optimal

Optimal

This reader only allows high performance HTRF measurement when assays are run in WHITE plates.





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HTRF® Terbium cryptate donor / Green acceptor readout Setup recommendations for Safire^{2™}

Two sequential measurements should be carried out: at 620 nm for the cryptate emission, and at 520 nm for the specific signal emitted by the 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.

Safire^{2TM} readers must be appropriately configured for HTRF® readout by setting up the measurement conditions in the "multilabeling" function of Xfluor4 or Magellan software. In particular, these parameters should be entered as below. No special upgrade is required for HTRF® readout, as it is a monochromator-based instrument:

Measurement	1
mododiomonic	

Excitation wavelength	343 nm	
Excitation bandwidth	20 nm	
Emission wavelength	620 nm	
Emission bandwidth	10 nm	
Number of reads	100	
Lag time	60 µs	
Integration time	500 μs	
Gain	Optimal	
Z position	Optimal	
Measurement 2		

Excitation wavelength	343 nm
Excitation bandwidth	20 nm
Emission wavelength	520 nm
Emission bandwidth	10 nm
Number of reads	100
Lag time	60 µs
Integration time	500 µs
Gain	Optimal
Z position	Optimal

This reader only allows high performance HTRF measurement when assays are run in WHITE plates.





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HTRF® Terbium cryptate donor / Red acceptor readout Setup recommendations for Safire^{2TM}

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.

Safire^{2TM} readers must be appropriately configured for HTRF[®] readout by setting up the measurement conditions in the "multilabeling" function of Xfluor4 or Magellan software. In particular, these parameters should be entered as below. No special upgrade is required for HTRF[®] readout, as it is a monochromator-based instrument:

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Integration time

Gain

Z position

Excitation wavelength	340 nm	
Excitation bandwidth	20 nm	
Emission wavelength	620 nm	
Emission bandwidth	10 nm	
Number of reads	100	
Lag time	60 µs	
Integration time	500 μs	
Gain	Optimal	
	O., C.,	
Z position	Optimal	
Z position Measurement 2	Optimai	
·	340 nm	
Measurement 2		
Measurement 2 Excitation wavelength	340 nm	
Measurement 2 Excitation wavelength Excitation bandwidth	340 nm 20 nm	
Measurement 2 Excitation wavelength Excitation bandwidth Emission wavelength	340 nm 20 nm 665 nm	

500 µs

Optimal

Optimal

This reader only allows high performance HTRF measurement when assays are run in WHITE plates.

