HTRF setup recommendations for EnVision

HTRF® Europium cryptate donor / red acceptor readout setup recommendations for EnVision equipped in flash lamp

EnVision™ reader must be equipped with a specific optical device (mirror and filters), which enables the measurement of both 620 nm cryptate and 665 nm acceptor emissions. 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.

EnVision reader must be appropriately configured for HTRF® readout by setting up the measurement conditions in the software according to the following indications:

Setup	
Top Mirror	TRF Lance D407/D630 advanced dual mirror (#666) or TRF LANCE/DELFIA D400/D630 dual mirror (#662) TRF advanced single mirror (#615) or TRF LANCE/DELFIA D400 single mirror (#412)
Excitation filter	UV2 (TRF) 320 (#111)
Emission filter	APC 665 (#205)
2nd emission filter	CY5 620 (#118) or 615 (#203)
Measurement height	12 for 384sv - 7 for 96LV otherwise must be determined via Optimization
Cycle	2000µs
Delay	60µs
Number of flashes	100
Number of flashes for 2nd detector	100
Total time of windows	400µs

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

HTRF® Terbium cryptate donor / green acceptor readout setup recommendations for EnVision equipped in flash lamp

EnVision reader must be equipped with a specific optical device (mirror and filters), which enables the measurement of both 620 or 495 nm cryptate and 520nm acceptor emissions. The ratio* of the two fluorescence intensities 520/620 or 520/495 (acceptor/donor) enables the calculation of Delta F (%) which represents the relative energy transfer rate for each sample.

EnVision reader must be appropriately configured for HTRF® readout by setting up the measurement conditions in the software according to the following indications:

Setup	
Top Mirror	TRF D407/D505 advanced dual mirror (#664) or TRF D400/D505 dual mirror (#657) TRF advanced single mirror (#615) or TRF LANCE/DELFIA D400 single mirror (#412)
Excitation filter	UV2 (TRF) 340 (#101)
Emission filter	Trf 520 (#275) or (#226)
2nd emission filter	495 (#276) for simultaneous readouts (dual mirror) Note: CY5 620 (#118) or 615 (#203) can be used with dual mirror but 2 successive readouts should be done (520nm then 620nm or 615nm)
Measurement height	12 for 384sv – 7 for 96LV otherwise must be determined via Optimization
Cycle	2000µs
Delay	60µs
Number of flashes	100
Number of flashes for 2nd detector	100
Total time of windows	400µs

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

HTRF® Terbium cryptate donor / red acceptor readout setup recommendations for EnVision equipped in flash lamp

EnVision reader must be equipped with a specific optical device (mirror and filters), which enables the measurement of both 620 nm cryptate and 665 nm acceptor emissions. 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.

EnVision reader must be appropriately configured for HTRF® readout by setting up the measurement conditions in the software according to the following indications:

Setup	
Top Mirror	TRF Lance D407/D630 advanced dual mirror (#666) or TRF LANCE DELFIA D400/630 dual mirror (#662) TRF advanced single mirror (#615) or TRF LANCE/DELFIA D400 single mirror (#412)
Excitation filter	UV2 (TRF) 340 (Barcode #101)
Emission filter	APC 665 (Barcode #205)
2nd emission filter	CY5 620 (Barcode #118 or #203)
Measurement height	12 for 384sv – 7 for 96LV otherwise must be determined via Optimization
Cycle	2000µs
Delay	60µs
Number of flashes	100
Number of flashes for 2nd detector	100
Total time of windows	400µs

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

HTRF® Europium cryptate donor / red acceptor readout setup recommendations for EnVision equipped in laser

EnVision reader must be equipped with a specific optical device (mirror and filters), which enables the measurement of both 620 nm cryptate and 665 nm acceptor emissions. 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.

EnVision reader must be appropriately configured for HTRF® readout by setting up the measurement conditions in the software according to the following indications:

Setup	
Top Mirror	TRF LASER D407/D630 advanced dual mirror (#667) or TRF LASER D400/D630 dual mirror (#446) TRF LASER advanced single mirror (#616) or TRF LANCE/DELFIA D400 single mirror (#445)
Emission filter	APC 665 (#205)
2nd emission filter	CY5 620 (#118) or 615 (#203)
Measurement height	12 for 384sv – 7 for 96LV otherwise must be determined via Optimization
Cycle	16600µs
Delay	50µs
Number of flashes	50 for white plate / 100 for black plate
Number of flashes for 2nd detector	50 for white plate / 100 for black plate
Total time of windows	400µs

HTRF® Terbium cryptate donor / green acceptor readout setup recommendations for EnVision equipped in laser

EnVision reader must be equipped with a specific optical device (mirror and filters), which enables the measurement of both 620 nm or 495nm cryptate and 520 nm acceptor emissions. The ratio* of the two fluorescence intensities 520/620 or 520 /495 (acceptor/donor) enables the calculation of Delta F (%) which represents the relative energy transfer rate for each sample.

EnVision reader must be appropriately configured for HTRF® readout by setting up the measurement conditions in the software according to the following indications:

Setup	
Top Mirror	TRF LASER D407/D505 advanced dual mirror (#665) or TRF LASER D400/D505 dual mirror (#447) TRF LASER advanced single mirror (#616) or TRF LANCE/DELFIA D400 single mirror (#445)
Emission filter	Trf 520 (#275) or (#226)
2nd emission filter	495 (#276) for simultaneous readouts (dual mirror) Note: CY5 620 (#118) or 615 (#203) can be used with dual mirror but 2 successive readouts should be done (520nm then 620nm or 615nm)
Measurement height	12 for 384sv – 7 for 96LV otherwise must be determined via Optimization
Cycle	16600µs
Delay	50µs
Number of flashes	20
Number of flashes for 2nd detector	20
Total time of windows	400µs

HTRF® Terbium cryptate donor / red acceptor readout setup recommendations for EnVision equipped in laser

EnVision reader must be equipped with a specific optical device (mirror and filters), which enables the measurement of both 620 nm cryptate and 665 nm acceptor emissions. 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.

EnVision reader must be appropriately configured for HTRF® readout by setting up the measurement conditions in the software according to the following indications:

Setup	
Top Mirror	TRF LASER D407/D630 advanced dual mirror (#667) or TRF LASER D400/D630 dual mirror (#446) TRF LASER advanced single mirror (#616) or TRF LANCE/DELFIA D400 single mirror (#445)
Emission filter	APC 665 (#205)
2nd emission filter	CY5 620 (#118) or 615 (#203)
Measurement height	12 for 384sv – 7 for 96LV otherwise must be determined via Optimization
Cycle	16600µs
Delay	50µs
Number of flashes	20
Number of flashes for 2nd detector	20
Total time of windows	200µs

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