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HTRF® Europium cryptate donor / Red acceptor readout Setup recommendations for Mithras² LB 943

The Mithras² LB943 reader must be equipped with the TR-FRET reading module which includes the necessary optical components for HTRF® readout. Two sequential readings at 620nm and 665nm emission wavelengths are performed. The ratio of the fluorescence intensities 665/620 (acceptor/donor) enables the calculation of Delta F (%) which represents the relative energy transfer rate for each sample.

The Mithras² LB943 operating software comes with pre-set ready-to-use parameter files for HTRF[®] measurements including the ratio calculation. The recommended settings are defined under the TR-Fluorescence protocol as described below:

Measurement 1

Excitation wavelength D320 (40nm)

Emission wavelength D620 (TRF)(10nm)

Lamp energy 100

Cycle time $2000 \mu s$ Delay time $50 \mu s$ Reading time $400 \mu s$

Counting time 1s Optimal

Aperture 1

Operation mode by plate

Measurement 2

Excitation wavelength D320 (40)

Emission wavelength D665 (TRF)(7.5nm)

Aperture 1

Operation mode by plate

• 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 Mithras² LB 943

The Mithras² LB943 reader must be equipped with the TR-FRET reading module which includes the necessary optical components for HTRF® readout. Two sequential readings at 620nm and 520nm emission wavelengths are performed. The ratio of the fluorescence intensities 520/620 (acceptor/donor) enables the calculation of Delta F (%) which represents the relative energy transfer rate for each sample.

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Measurement 1

Excitation wavelength D340 (26nm)

Emission wavelength D620 (TRF)(10nm)

Lamp energy 100

Cycle time 2000 µs

Delay time 50 µs
Reading time 400 µs

Counting time 1s Optimal

Aperture 1

Operation mode by plate

Measurement 2

Excitation wavelength D340 (26nm)

Emission wavelength D520 (TRF)(10nm)

Lamp energy 100

Cycle time 2000 µs

Delay time 50 µs
Reading time 400 µs

Counting time 1s Optimal

Aperture 1

Operation mode by plate

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Emission wavelength D620 (TRF)(10nm)

Lamp energy 100

Cycle time 2000 µs

Delay time 50 µs
Reading time 400 µs

Counting time 1s Optimal

Aperture 1

Operation mode by plate

Measurement 2

Excitation wavelength D340 (26nm)

Emission wavelength D665 (TRF)(7.5nm)

Lamp energy 100

Cycle time 2000 µs

Delay time 50 μs

Reading time 400 µs

Counting time 1s Optimal

Aperture 1

Operation mode by plate

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

