PerkinElmer For the Better | cisbio

www.cisbio.com

HTRF® Europium cryptate donor / Red acceptor readout
Setup recommendations for Mithras LB 940

The Mithras LB940 reader must be equipped with the TR-FRET reading module which includes the necessary optical components for HTRF® readout. Two sequential readings at 620 nm and 665 nm 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 Mithras LB940 operating software comes with preset 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 filter	D320 (40) Ref.:52733
Emission filter	D620 (TRF)(10) Ref.:47731
Lamp energy	100
Cycle time	2000 µs
Delay time	50 µs
Reading time	300 µs
Counting time	1 s Optimal
Operation mode	by plate

Measurement 2

Excitation filter	D320 (40) Ref.:52733
Emission filter	D665 (TRF)(7.5) Ref.:52544
Lamp energy	100
Cycle time	2000 µs
Delay time	50 µs
Reading time	300 µs
Counting time	1 s Optimal
Operation mode	by plate

PerkinElmer For the Better | cisbio

www.cisbio.com

HTRF® Terbium cryptate donor / Green acceptor readout
Setup recommendations for Mithras LB 940

The Mithras LB940 reader must be equipped with the TR-FRET reading module which includes the necessary optical components for HTRF® readout. Two sequential readings at 620 nm and 520 nm 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.

The Mithras LB940 operating software comes with preset 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 filter	D340 / 26	Ref.:54083
Emission filter	D620 (TRF)(10)	Ref.:47731
Lamp energy	100	
Cycle time	2000 µs	
Delay time	50 µs	
Reading time	400 µs	
Counting time	1 s Optimal	
Operation mode	By plate	

Measurement 2

Excitation filter	D340 / 26	Ref.:54083
Emission filter	D520 (TRF)(10)	Ref.: 38836
Lamp energy	100	
Cycle time	2000 µs	
Delay time	50 µs	
Reading time	300 µs	
Counting time	1 s Optimal	
Operation mode	By plate	

PerkinElmer For the Better | cisbio

www.cisbio.com

HTRF® Terbium cryptate donor / Red acceptor readout
Setup recommendations for Mithras LB 940

The Mithras LB940 reader must be equipped with the TR-FRET reading module which includes the necessary optical components for HTRF® readout. Two sequential readings at 620 nm and 665 nm 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 Mithras LB940 operating software comes with preset 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:

Excitation filter	D340 / 26 Ref.:54083
Emission filter	D620 (TRF)(10) Ref.: 47731
Lamp energy	100
Cycle time	2000 µs
Delay time	50 µs
Reading time	400 µs
Counting time	1 s Optimal
Operation mode	By plate

Measurement 2

Excitation filter	D340 / 26 Ref.:54083
Emission filter	D665 (TRF)(7.5) Ref. :52544
Lamp energy	100
Cycle time	2000 µs
Delay time	50 µs
Reading time	400 µs
Counting time	1 s Optimal
Operation mode	By plate