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## HTRF® Europium cryptate donor / Red acceptor readout Setup recommendations for Infinite® F200 PRO

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 Infinite® F200 PRO must be equipped with the HTRF® module. Infinite® F200 PRO 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.

| Measurement 1  |   |                            |
|--|---|----------------------------|
| Excitation filter  | 320 (25) nm   | Ref: 8C138                 |
| Emission filter  | 620 (10) nm   | Ref: 6F041                 |
| Mirror   | Dichroic 510  |                            |
| Lag time   | 150 µs  |                            |
| Integration time   | 500 μs  |                            |
| Number of reads  | 10  |                            |
| Gain   | Optimal   |                            |
| Z  | Can be calculated on the well giving the highest signal |                            |
|  |   |                            |
| Measurement 2  |   |                            |
| Measurement 2  Excitation filter                                   | 320 (25) nm   | Ref:: 8C138                |
|  | 320 (25) nm<br>665 (8.5) nm                             | Ref:: 8C138<br>Ref.: 9E336 |
| Excitation filter  | , ,   |                            |
| Excitation filter Emission filter                                  | 665 (8.5) nm  |                            |
| Excitation filter Emission filter Mirror                           | 665 (8.5) nm<br>Dichroic 510                            |                            |
| Excitation filter Emission filter Mirror Lag time                  | 665 (8.5) nm<br>Dichroic 510<br>150 µs                  |                            |
| Excitation filter Emission filter Mirror Lag time Integration time | 665 (8.5) nm<br>Dichroic 510<br>150 μs<br>500 μs        |                            |

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 Infinite® F200 PRO

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.

The Infinite® F200 PRO must be equipped with the HTRF® module. Infinite® F200 PRO 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:

| Measurement 1  |   |                           |
|--|---|---------------------------|
| Excitation filter  | 340 (35) nm   | Ref.: 9E095               |
| Emission filter  | 620 (10) nm   | Ref.: 6F041               |
| Mirror   | Dichroic 510  |                           |
| Lag time   | 150 µs  |                           |
| Integration time   | 500 μs  |                           |
| Number of reads  | 10  |                           |
| Gain   | Optimal   |                           |
| Z  | Can be calculated on the well giving the highest signal |                           |
|  |   |                           |
| Measurement 2  |   |                           |
| Measurement 2  Excitation filter                                   | 340 (35) nm   | Ref.: 9E095               |
|  | 340 (35) nm<br>520 (10) nm                              | Ref.: 9E095<br>Ref.: 7F90 |
| Excitation filter  | ,   |                           |
| Excitation filter Emission filter                                  | 520 (10) nm   |                           |
| Excitation filter Emission filter Mirror                           | 520 (10) nm<br>Dichroic 510                             |                           |
| Excitation filter Emission filter Mirror Lag time                  | 520 (10) nm<br>Dichroic 510<br>150 μs                   |                           |
| Excitation filter Emission filter Mirror Lag time Integration time | 520 (10) nm<br>Dichroic 510<br>150 μs<br>500 μs         |                           |

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 Infinite® F200 PRO

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 Infinite® F200 PRO must be equipped with the HTRF® module. Infinite® F200 PRO 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:

| Measurement 1  |   |                            |
|--|---|----------------------------|
| Excitation filter  | 340 (35) nm   | Ref.: 9E095                |
| Emission filter  | 620 (10) nm   | Ref.: 6F041                |
| Mirror   | Dichroic 510  |                            |
| Lag time   | 150 µs  |                            |
| Integration time   | 500 μs  |                            |
| Number of reads  | 10  |                            |
| Gain   | Optimal   |                            |
| Z  | Can be calculated on the well giving the highest signal |                            |
| Massurament 2  |   |                            |
| Measurement 2  |   |                            |
| Excitation filter  | 340 (35) nm   | Ref.: 9E095                |
|  | 340 (35) nm<br>665 (8.5) nm                             | Ref.: 9E095<br>Ref.: 9E336 |
| Excitation filter  | ` ,   |                            |
| Excitation filter Emission filter                                  | 665 (8.5) nm  |                            |
| Excitation filter Emission filter Mirror                           | 665 (8.5) nm<br>Dichroic 510                            |                            |
| Excitation filter Emission filter Mirror Lag time                  | 665 (8.5) nm<br>Dichroic 510<br>150 µs                  |                            |
| Excitation filter Emission filter Mirror Lag time Integration time | 665 (8.5) nm<br>Dichroic 510<br>150 μs<br>500 μs        |                            |

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

