# HTRF® Terbium cryptate donor / Red acceptor readout
# Setup recommendations for Cytation 1

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 fluorescence intensities 665/620 (acceptor/donor) enables the calculation of Delta F (%) which represents the relative energy transfer rate for each sample.

Cytation 1 readers must be appropriately configured for HTRF® readout by setting up the measurement conditions in the Gen5™ Reader Control and Data Analysis Software. In particular, these parameters should be entered as defined in the table below.
HTRF® assays must be read using the filter-based detection mode only. The monochromator mode is **not** HTRF® compatible

| **Measurement 1** | |
|---|---|
| Excitation filter | 340 (30) nm |
| Emission filter | 620 (10) nm |
| Optics position | top 400 |
| Number of flashes | 10 |
| Lag time | 100 µs |
| Integration time | 300 µs |
| Sensitivity | Read the plate, select the well with the highest signal, and set its value at 50,000 counts |
| Z | Select the default value given in the software |

| **Measurement 2** | |
|---|---|
| Excitation filter | 340 (30) nm |
| Emission filter | 665 (10) nm |
| Optics position | top 400 |
| Number of flashes | 10 |
| Lag time | 100 µs |
| Integration time | 300 µs |
| Sensitivity | Read the plate, select the well with the highest signal, and set its value at 50,000 counts |
| Z | Select the default value given in the software |

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