

# MitoXpress Xtra Oxygen Consumption Assay

## Plate Reader compatibility chart

Instrument	Optical configuration	Integ 1 (D1/W1) Integ 2 (D2/W2)	Optimum mode	Ex (nm) Em (nm)
<b>BioTek:</b> Cytation 1, 3, or 5 Synergy H1, H4, Neo or Neo2	Filter-based Top or bottom read	30/30 $\mu$ s 70/30 $\mu$ s	Dual read TR-F (Lifetime)	Ex 380 $\pm$ 20 nm Em 645 $\pm$ 15 nm
<b>BMG Labtech:</b> CLARIOstar	Filter-based Top or bottom read (bottom read preferred where available)	30/30 $\mu$ s 70/30 $\mu$ s	Dual-read TR-F (Lifetime)	Ex 340 $\pm$ 50 nm (TR-EX) Em 665 $\pm$ 50 nm or Em 645 $\pm$ 10 nm with LP-TR Dichroic
FLUOstar Omega POLARstar Omega	Filter-based Top or bottom read	30/30 $\mu$ s 70/30 $\mu$ s	Dual-read TR-F (Lifetime)	Ex 340 $\pm$ 50 nm (TR-EXL) Em 655 $\pm$ 25 nm (BP-655)
<b>Tecan:</b> Spark (10M/20M)	Filter-based Top read	30/30 $\mu$ s 70/30 $\mu$ s	Dual read TR-F (Lifetime)	Ex 380 $\pm$ 20 nm Em 670 $\pm$ 40 nm
	Fusion optics Top read	30/30 $\mu$ s 70/30 $\mu$ s	Dual read TR-F (Lifetime)	Ex 380 $\pm$ 20 nm (Monochromator) Em 670 $\pm$ 40 nm (Filter)
Infinite F200Pro Infinite F Plex Infinite F Nano+	Filter-based Top or bottom read (bottom read preferred where available)	30/30 $\mu$ s 70/30 $\mu$ s	Dual read TR-F (Lifetime)	Ex 380 $\pm$ 20 nm Em 670 $\pm$ 40 nm
<b>Perkin Elmer:</b> VICTOR series, X4 or X5	Filter-based Top read	30/30 $\mu$ s 70/30 $\mu$ s	Dual read TR-F (Lifetime)	Ex 340 $\pm$ 40 nm (D340) Em 642 $\pm$ 10 nm (D642)
<b>Molecular Devices:</b> SpectraMax i3x, i3 SpectraMax Paradigm	Filter-based Top or bottom read (bottom read preferred where available)	30/100 $\mu$ s n/a	TR-F	Ex 370 nm Em 642 $\pm$ 10 nm (TRF-EuSa Filter Cartridge)
SpectraMax iD5	Filter-based Top or bottom read (bottom read preferred where available)	30/100 $\mu$ s n/a	TR-F	Ex 350 $\pm$ 60 nm Em 642 $\pm$ 10 nm
	Monochromator-based Top or bottom read (bottom read preferred where available)	30/100 $\mu$ s n/a	TR-F	Ex 380 $\pm$ 15 nm Em 650 $\pm$ 25 nm
<b>BMG Labtech:</b> PHERAstar FS/FSX	Filter-based Top or bottom read	40/100 $\mu$ s n/a	TR-F	Ex 337 Em 665 (HTRF Module)
FLUOstar Optima POLARstar Optima	Filter-based Top or bottom read	30/100 $\mu$ s n/a	TR-F	Ex 340 $\pm$ 50 nm (TR-EXL) Em 655 $\pm$ 25 nm (BP-655)

Instrument	Optical configuration	Integ 1 (D1/W1) Integ 2 (D2/W2)	Optimum mode	Ex (nm) Em (nm)
<b>Tecan:</b> Infinite M1000Pro Infinite M200Pro Infinite M Plex Infinite M Nano+	Monochromator-based Top or bottom read	30/100 $\mu$ s n/a	TR-F	Ex 380 $\pm$ 9 nm Em 650 $\pm$ 20 nm
Safire or Genios Pro	Monochromator/ Filter-based Top or bottom read	30/100 $\mu$ s n/a	TR-F	Ex 380 $\pm$ 9/15 nm Em 650 $\pm$ 20 nm
<b>Perkin Elmer:</b> EnVision	Filter-based Top read	40/100 $\mu$ s n/a	TR-F	Ex 340 $\pm$ 60 nm (X340) Em 650 $\pm$ 8 nm (M650)
<b>Molecular Devices:</b> SpectraMax M series SpectraMax Flexstation SpectraMax Gemini SpectraMax i3x, i3, iD3 or iD5	Monochromator-based Top or bottom read (bottom read preferred where available)	n/a n/a	TR-F	Ex 380 $\pm$ 15 nm Em 650 $\pm$ 25 nm
SpectraMax Paradigm	Filter-based Bottom read	n/a n/a	TR-F	Ex 380 $\pm$ 15 nm Em 650 $\pm$ 15 nm (TUNE Cartridge)

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