

Enabling the **PARADIGM™**
Detection Platform

Fluorescence Intensity Detection Cartridge

Genomics
Proteomics
Cell Analysis
Centrifugation
Lab Tools
Particle Characterization
Bioseparation
Lab Automation



The **Fluorescence Intensity Detection Cartridge** provides speed, sensitivity and flexibility. The wavelength-tuned excitation provides excellent performance when performing direct excitation during top and bottom reading. In addition, the standard dual-emission design enables simple, straightforward fluorescence resonance energy transfer (FRET) measurement.

PARADIGM™ Detection Platform

Fluorescence Intensity Detection Cartridge



DESCRIPTION

Part Number	A41577 or A41578
Mounting.....	Top Read or Bottom Read
Cartridge Size.....	1 Position
Light Source.....	High-Power LED
A41577:	
Wavelength-Tuned Excitation Range	360/35 nm
Wavelength-Tuned Emission Range	465/35 nm
	535/25 nm
A41578:	
Wavelength-Tuned Excitation Range	485/20 nm
Wavelength-Tuned Emission Range	535/25 nm
	595/35 nm

TYPICAL PERFORMANCE

	Stop-Read	On-The-Fly
Fluorometry (Fluorescein)		
384-well (75 µL)	0.100 fmol (2 min)	0.200 fmol (1.0 min)
1536-well (8 µL)	0.030 fmol (4 min)	0.050 fmol (1.5 min)

TYPICAL APPLICATIONS*

- | | |
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| <p>Both A41577 & A41578:</p> <ul style="list-style-type: none"> • Nucleic Acid Quantitation • Molecular Interaction | <p>A41578 only:</p> <ul style="list-style-type: none"> • Ion Channel • Protein Quantitation • Reporter • Apoptosis • Proliferation/Viability |
|--|--|

TYPICAL FLUOROPHORES*

- | | |
|---|---|
| <p>A41577:</p> <ul style="list-style-type: none"> • Coumarin • Hoechst • DAPI • AMCA • ANS • Coumarin-Fluorescein (FRET) | <p>A41578:</p> <ul style="list-style-type: none"> • Fluorescein • OliGreen™ • PicoGreen™ • RiboGreen™ • Fluo-3,4 • GFP • Fluorescein-Rhodamine (FRET) • GFP-RFP (FRET) |
|---|---|

* This list does not represent a complete list of applications or labels which can be performed by the specific detection cartridge.

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