

MATECH

GMP

Inorganic

Fluorescent Reference Standards

For Fluorescent Plate Readers.

96 Well

384 Well

Top Reading

Bottom Reading

HTS

GMP

Solid State

Inorganic

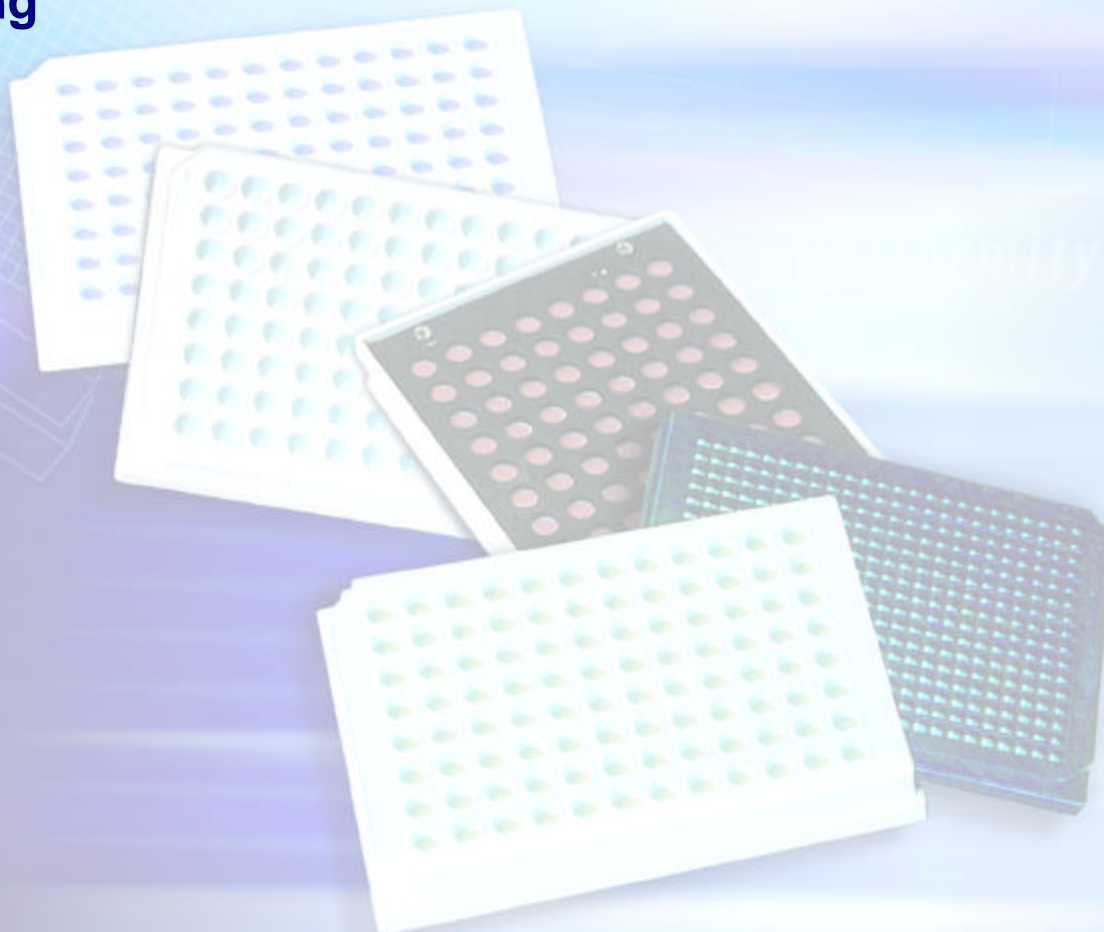
Dependable

Accurate

Stable

Reliable

Uniformity



“Our Standard is Excellence”™

What are Fluorescence Reference Standards?

MATECH Fluorescence Reference Standards (FRS) are wellplates that contain a stable inorganic standard that can be used to rapidly check the accuracy of the wavelength, uniformity, and intensity measurements of your fluorescent microplate reader. Each plate includes an inorganic phosphor that absorbs light at one wavelength and emits light at another wavelength. These phosphors are far more stable than organic dye solutions or organic dye-doped polymers that are commonly used to calibrate fluorescence readers. Their stability is guaranteed for five years.

Ease of Operation

A benefit of the Fluorescence Reference Standards is that you can easily check your instrument at any time. All you have to do is to place the standard into the instrument and start your measurements. It's not necessary to prepare a solution and perform an external calibration every time you want to check your instrument, this means that you can run a calibration any time you want, for example, at the beginning of every shift.

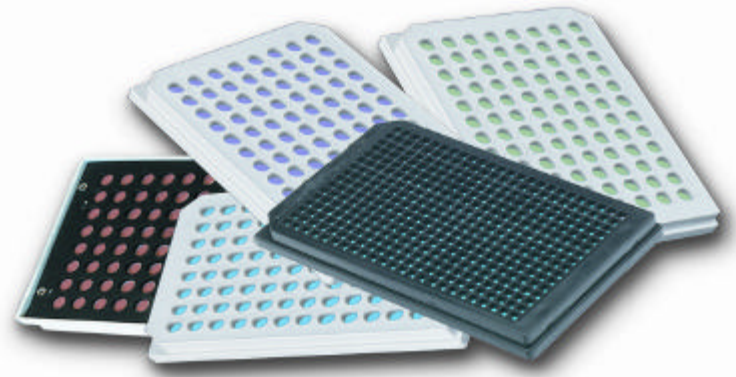
If you suspect that there is a problem with an assay, you can quickly determine if it is an instrument or chemistry problem.

Checking Linearity

Fluorescent Dilution Series standards are also available to check the linearity and sensitivity of your reader. These plates contain a series of standards with successive wells containing different levels of emission.



Distributed in Europe by: Heath Scientific Co Ltd
1 North House, Bond Av, Bletchley, MK1 1SW, UK
T. +44 1908 646700 F. +44 1908 645 209
www.heathscientific.com info@heathscientific.com



Who Should Use the FRS?

The Fluorescent Reference Standards are ideal for analysts in clinical, forensic, biotechnology and biological research laboratories who use microplate readers. The standards are commonly used in high throughput screening and drug discovery and to verify data for combinatorial chemistry. The microplates are standard size and fit all commercial microplate readers.

Who Uses MATECH Fluorescence Reference Standards?

MATECH Fluorescence Reference Standards have been used and purchased by a broad range of institutions, including Amersham, Amgen, Applied Biosystems, Baxter Bioscience, Beckman Coulter, Chiron, Genentech, Harvard Medical School, Merck, Pfizer, UCLA, and Varian.

Plate Formats Available from MATECH

MATECH Fluorescence Reference Standards are available in a variety of formats including top-reading (TR) and bottom-reading (BR) 96 well plates as well as 384 well top-reading (HT) plates. Dilution series standards plates are available as both top-reading (TD) and bottom-reading (BD) 96 wellplates. The standards are available with a number of phosphors including 418 nm emission (violet), 460 nm emission (Blue), 517 nm emission (Green) and 613 nm emission (Red).

To select the correct plate, determine the appropriate format and the emission wavelength that is closest is as simple as selecting the wavelength that is close to the dye that you use and the right format. As an example, if you are using a top reading 96 well plate with fluorescein dye, then select TR-517.