

Whatman™ Clear View Microplates



Microplates

High throughput microplate applications for cellomics are expanding. Our patented process for Clear View and Glass Bottom plates provides the perfect technology for cell based assays, such as apoptosis, fluorescent ELISA and luminescence.

The Whatman Glass Bottom Plates offer ultra low background absorbance and extra flat surfaces ideal for viewing on confocal platforms.

Surface treatments

Whatman tissue culture treatment facilitates cell adhesion on Clear View microplates.

- Increases the number of cell adhesion sites by using carboxyl groups to modify the microplate surface.
- Plates and their clear polystyrene lids are irradiated to provide a sterile environment for cell culture growth.
- Applications include cell culture, cell viability, DNA and protein quantitation, luminescence, cell adhesion, and scintillation assays.
- Choice of plates with or without skirt for the best use of specific optics.

Clear View Plates

Whatman Clear View plates have optimally clear polymer bottoms. They eliminate the need for numerous transfer steps by providing the means to grow, observe, count, and assay cells in a single device.

- Available in 96 and 384 well formats with well volumes of 300 or 100 µl respectively.

- Absolutely clear well-bottoms allow direct analytical measurement.
- Plates are available in white, black or clear polystyrene.
 - The opaque white and black plates prevent optical well-to-well crosstalk.
 - The black walls reduce noise, improving signal to noise ratios.
 - The black wall plates are used for florescent assays.
 - The white walls amplify signal.
 - The white wall plates are suitable for luminescence and liquid scintillation assays.

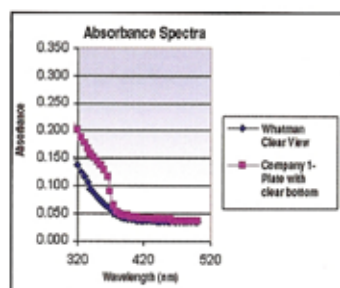


Fig 1. Whatman Clear View Plates have a very low UV/VIS absorbance background, maximizing excitation and emission energy.

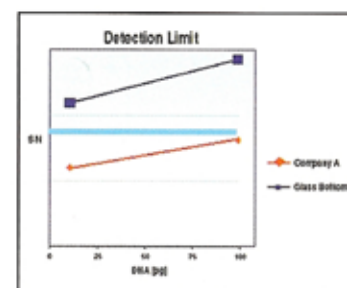


Fig 2. Whatman Clear View Plates have a significantly lower background for higher sensitivity.

Ordering information

Tissue culture treated with lid

Catalog number	Description	Qty per case
7716-2380	96 well, 300 µl, black polystyrene	50
7716-3380	96 well, 300 µl, white polystyrene	50

No surface treatment and no lid

Catalog number	Description	Qty per case
7706-2380	96 well, 300 µl, black polystyrene	50
7706-2103	384 well, 100 µl, black polystyrene	50
7706-3103	384 well, 100 µl, black polystyrene	50

Lid for Clear View plates

Catalog number	Description	Qty per case
7704-1001	Lid, clear polystyrene	100



Glass Bottom Microplates



Glass Bottom Microplates

Whatman Glass Bottom Plates are designed for low-end sensitivity detection, fluorescent and luminescent detection, and scintillation counting with no crosstalk where extremely low backgrounds are needed.

- Suitable for supersensitive and highly fluorescent-based arrays.
- Ultra thin, flat-bottom surface is perfect for microscopic scanning.
- Suitable for top and bottom reading instruments.
- Lowest background and highest signal-to-noise ratio.
- PicoGreen™ sensitivity range > 10 µg/µl.

Ordering information

Catalog number	Description	Qty per case
7706-1365	96 well, 300 µl, clear polystyrene with glass bottom, no skirt for microscope use	5
7706-2375	96 well, 300 µl, black polystyrene with glass bottom, standard skirt	5
7706-2370	96 well, 300 µl, black polystyrene with glass bottom, no skirt for microscope use	5

The Glass Bottom plate is designed to provide optically clear as well as optically flat surfaces. This ensures confluence and planarity for confocal imaging and detection techniques. They are suitable for FRET and GFP techniques.

Note: Both 96 and 384 Clear View and 96 Well Glass bottom plates conform to SBS recommended dimensions.

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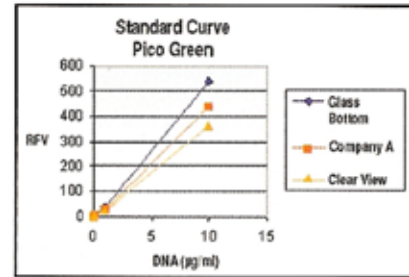


Fig 3. The Whatman Glass Bottom plates gave the best signal due to the low background noise.

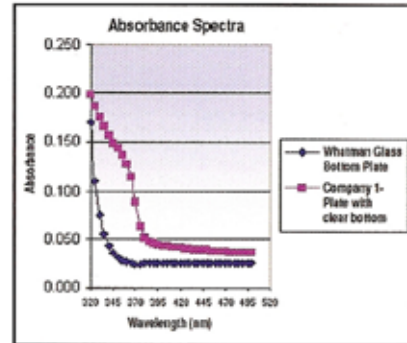


Fig 4. The Whatman Glass Bottom plates have the lowest background suitable for confocal technicals and high-throughput screening.

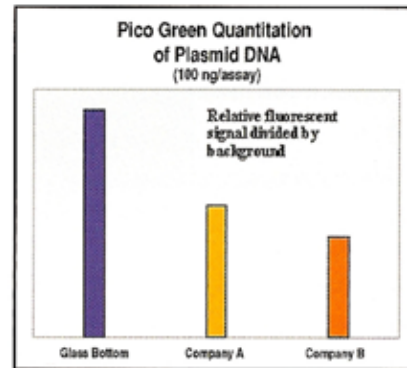


Fig 5. Whatman Glass Bottom plate shows a two-fold increase from the source (sample) so less sample is needed.

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