



## Microplates Advise you on the Right Assay and the Best Tools for Analysis

Microplates advise you on how to choose the right assay and the best tools for analysis. Microplates recommend that choosing [assay microplates](#) optimised for the reagents you will be using is key for obtaining quality data.

Another important tip from [Microplates](#) is that, when it comes to selecting assay plates, you usually have a choice of clear, opaque and transparent. What you must consider before choosing between the different glass-bottom assay plate options is their reflective property.

For instance, ask yourself, do you need opaque assay plate walls to prevent well-to-well cross talk? Microplates consider it is best if you are opting for solid opaque plates if your assay involves scintillation, fluorescence and luminescence.

The Porvair Krystal series clear bottom plates are now recognised as industry-leading tools for Pharma drug discovery and screening. Their standard clear polystyrene bottom plates have bases 0.4mm thick. They are moulded from highly polished tools to reduce flow lines, artefacts and scratches, guaranteeing good results with all types of bottom-reading instruments.

For the more modern demanding confocal readers, Porvair Glass Bottom plates have been shown by leading research institutes to be unsurpassed for flatness, linearity and optical clarity. Our sparkling pure borosilicate glass is 175µm thick with a flatness tolerance across the plate of +/- 15µm, ensuring superb crisp images every time.

Microplates of course supply a range of assay plates from solid clear and solid bottom to Krystal Clear Bottom Opaque Sides, Krystal UV Transparent, Krystal UV Solid Quartz, Bacti-Growth plates and [deep well plates](#).

The [quartz assay plates](#), particularly the Krystal UV Solid Quartz, is available in black and clear. The Black cell culture plates are high for fluorescence assays. With less opaque surface to reflect the light, clear-bottom assay plates have lower luminescent signal intensity, but they are the go-to 96 well assay plate choice for absorbance assays.

Whereas the clear bottom plates are also useful if you wish to view the cells before the assay; however, we wouldn't recommend these cell culture microplates if you are using a bottom-reading instrument, as the clear bottom may lead to increased levels of well-to-well cross talk.

So, a piece of advice from Microplates is to avoid this issue when conducting an assay with clear glass bottom assay plates, and we advise researchers to use top reading instruments whose detector can minimise the amount of light which leaks from the well by interfacing more closely with it. If your assay

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involves UV wavelength measurement (e.g. nucleic acid quantitation), you can also get special UV-transparent microplates.

If you are interested in finding out which is the right assay plate for you, then contact Microplates today for more information by phone on +44 (0)1978 661144 or by email at [\[email protected\]](#) If you are not sure which product is suitable for you, then you can go online to their website at <https://www.microplates.com/assay-plates/> and read through the range of assays supplied by Microplates.

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**Microplates**

+44 (0)1978 661144

Clywedog Road South Wrexham Industrial Estate

Wrexham LL13 9XS

United Kingdom

<https://www.microplates.com/>