PURE materials

CLEAN processes

CLEAR images

RESULTS you can trust

You put a lot into your research.





complete

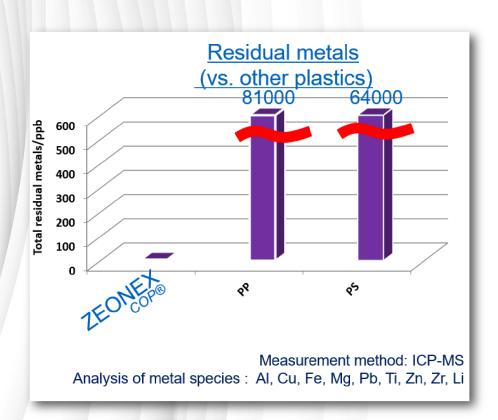
The High Performance Microplate Solution.



Featuring the purist raw materials combined with the cleanest and most precise manufacturing processes - Aurora Microplates deliver ultra-clear images and extremely low optical noise so your results will be trustworthy under all assay conditions. Aurora Microplates can include extra evaporation barrier wells which will reduce or eliminate edge effects in long assays. Aurora Microplates are vailable in 96, 384, 1536 and 3456 well formats for demanding research needs.

## **Material Purity:**

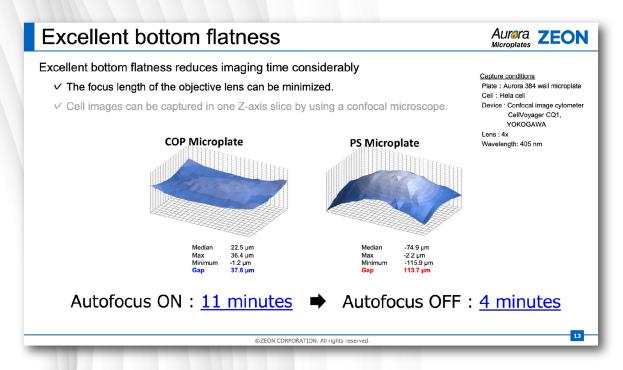
The type of material used in microplates significantly affects optical clarity and chemical compatibility. Aurora Microplates Imager-Quality Plates are made of 100% Cyclo Olefin Polymer (COP). Every plate is made with the exact same formulation of resin, colorant and film. COP is a clear, clean medical resin free of metals and other containments that can impact cells, enzymes and other bioactive entities- especially when compared to Polystyrene (PS).

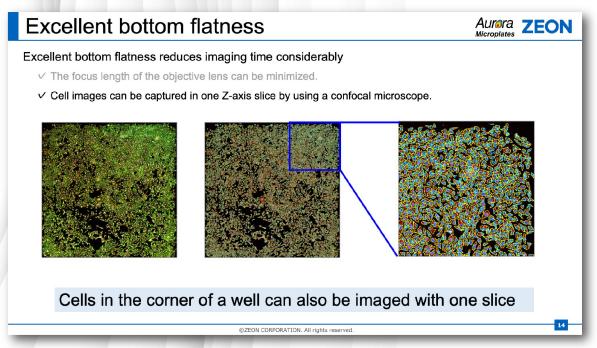




## Plate design:

Microplate Flattness and Film Thickness: The flat-bottom design of Aurora microplates are optimized for high-performance imaging and mutli-mode detection. The flat bottom allows for more efficient plate washing results. The clear film-bottom of each microplate is a sheet of unipigmented COP which is fused by heat to the interstitial material between the wells during the molding process. This provides an extremely flat ( within 120µm), high transmittance window for optical measurements of each well. The bottom thickness is 100 or 188 microns.

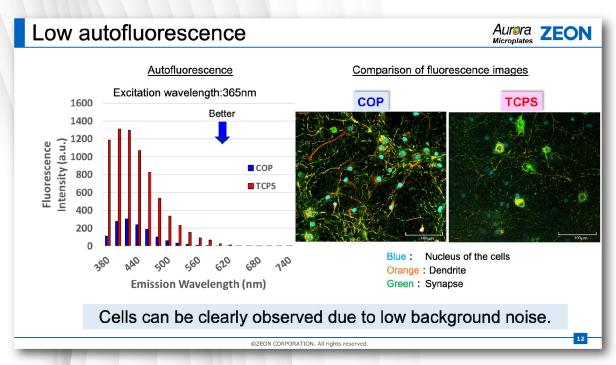






## **Material optics:**

Ensuring that your chosen microplate is compatible with your imaging equipment from an optics standpoint is essential for reliable data acquisition. Fluorescence microscopes or high-content screening systems require materials that provide high quality images. Specifically, COP exhibits high-transmission of UV wavelengths of light (down to 230nm) and very low auto-fluorescence, especially when excited at UV wavelengths of light. Aurora Microplates are designed with a slight draft angle, maintaining a large viewing surface. The optical-film bottom of the Aurora Microplate is 188  $\mu$ m thick, has a refractive index of 1.534 and possesses very little birefringence. All Aurora Microplates are made to exacting flatness specifications of less than 200  $\mu$ m.



At Aurora we stand by the motto of Pure Clean Clear Results which embody our drive to make the best Microplates. We use the best materials, the cleanest and most precise molding operations and facilities to deliver our Microplates in a timely fashion. We have great respect for the demands of modern discovery science and its ever-evolving search for more sensitive and subtle clues to understanding cause and effect. We believe that the best Microplates should be an invisible carrier for your work- not a contributor to variability in your data. We will continue to adhere to these principles as we operate, innovate and support your needs now and in the future.



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