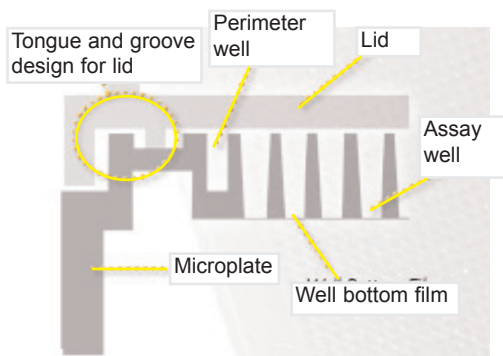


Cyclo-olefin Microplates

delivering solutions

EVAPORATION CONTROL DESIGN



Evaporation control design includes:

- Perimeter wells, extra wells added to the outside of the plate.
- Configuration of the lid and top plate surface to produce a snug fit.
- Decreased permeability of COP when compared to polystyrene or polypropylene.

COMPARISON OF MICROPLATE POLYMER PROPERTIES

Property	Cyclo-olefin polymer	Polystyrene	Polypropylene
Spectroscopy-Fluorescence			
High light transmittance 240nm - 900nm	Excellent	Good	Average
Low autofluorescence 240nm - 700nm	Excellent	Average	Poor
Broad chemical resistance	Yes	No	Yes
Thermal stability at 140C	Yes	No	No
Flat bottom	120 microns flat (approx.)	250 microns flat (approx.)	1000 microns flat (approx.)
Drug discovery/ cell biology			
DMSO solvent stable	Yes	No	Yes
Biocompatibility, low protein binding	Ultra-low binding	High binding	Yes
Fluorescence assay compatible	Yes	yes	No
Luminescence assay compatible	Yes	Yes	No
Cell culture compatible	Yes	Yes	No
Chemical storage compatible	Yes	No	Yes
Evaporation control	Yes	no	No
Cellular image analysis compatible	Yes	No	No
Genomic applications			
PCR compatible	Yes	No	Yes
Real-time PCR compatible	Yes	No	Yes
High throughput robot PCR compatible	Yes	No	No
SNP reaction compatible	Yes	No	Yes
mRNA analysis	Yes	No	Yes
DNA sequencing reaction compatible	Yes	No	Yes
Proteomic applications			
Protein crystallography compatible	Yes	Yes	No
Image analysis compatible	Yes	Yes	No
Antibody compatible	Yes	Yes	No
Protein synthesis compatible	Yes	Yes	Yes