Thermo Scientific Nunc Edge 2.0
96-Well Plates

Take your cell-based assays
to the edge

- Reducing edge effect for full-plate results
- Yielding viable cells with well-to-well consistency
- Increasing productivity for cell-based assays

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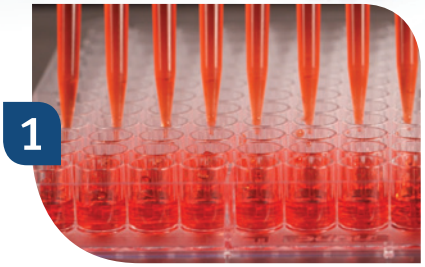
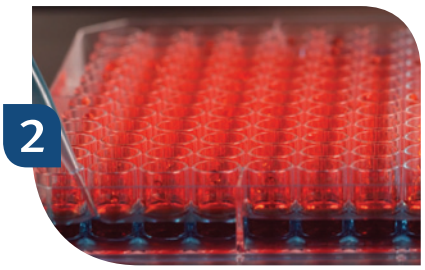
Uniquely designed to prevent edge effect

When it comes to growing healthy, viable cells in extended microplate cultures, evaporation is a pressing issue that researchers are commonly faced with. In order to mitigate the damages caused by evaporation, notably among the highly vulnerable perimeter wells, researchers typically leave the outer wells in a standard 96-well plate empty, ultimately sacrificing 37.5% of each plate. With The Thermo Scientific™ Nunc™ Edge 2.0 Plate, this work-around strategy is no longer necessary.

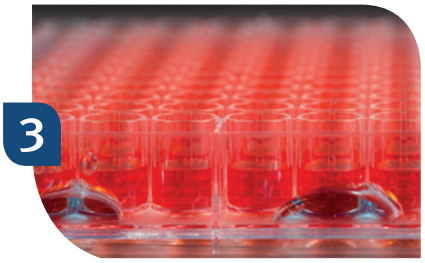
Preventing evaporation in 1-2-3 simple steps



Utilize all 96 wells



Fill surrounding moat with 1.7 mL sterile water or media



Evaporation takes place in the moat and not the outer wells - preserving cell viability and maintaining well-to-well consistency

Optimized for extended microplate cultures

Reclaim full-use of your 96-well plate

The Edge 2.0 Plate provides an ideal, efficient and economical solution for preventing evaporation and in turn the risks associated with edge effect. Uniquely designed with a surrounding moat that serves as an evaporation barrier, researchers are now free to expand their microplate cultures to all 96 wells without concerns of evaporation.

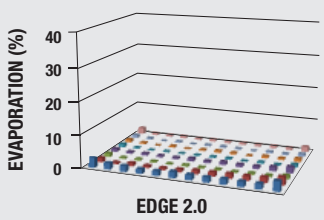
Achieve full-plate consistency

Following incubation periods of up to four days, Edge 2.0 reduces the rate of overall plate evaporation to <2% and yields consistent, viable cells across the entire 96-well plate, leading to improved productivity for cell-based assays.

Improve your process and results

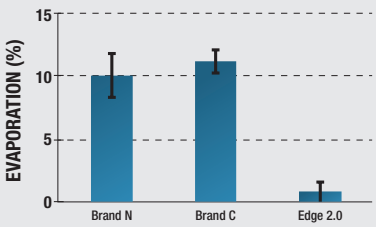
Being able to use every well in an Edge 2.0 Plate means that researchers can more efficiently plan their experiments, all with potentially less cost and related product waste.

INDIVIDUAL WELL EVAPORATION



The built-in moat in the Nunc Edge 2.0 Plate effectively eliminates edge effect in the perimeter wells caused by evaporation.

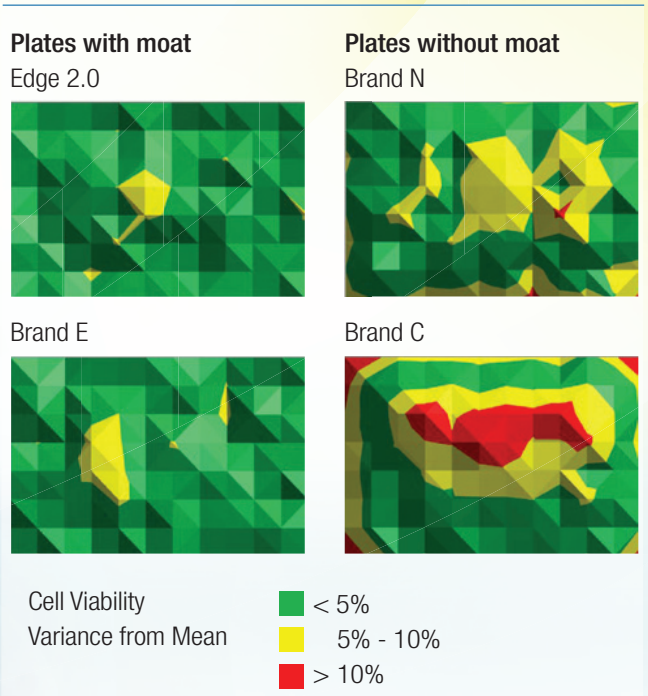
WHOLE PLATE EVAPORATION



The built-in moat in the Nunc Edge 2.0 Plate significantly reduces whole plate evaporation as compared to conventional 96-well plates

Maintain cell viability and consistency

The Nunc Edge 2.0 Plate eliminates the hazards caused by differential evaporation rates that are known to cause variability in both biochemical and cell based assays. In fact, a volume loss as small as 10% can concentrate media components and metabolites enough to alter cell physiology. When this occurs, cell growth and performance can be affected and heterogeneous or biased results can occur.



Cell viability variance is minimized in plates with the built-in moat comparing to those without the moat (Brand N and Brand C). The Nunc Edge 2.0 plate outperforms the Brand E plate with narrow moat in cell viability consistency across the entire plate.

Making new cancer applications possible

Cell-based Kinetic Mesaurements Using the Thermo Scientific Varioskan LUX

Using the Edge 2.0 Plate in conjunction with Thermo Scientific™ Varioskan™ LUX multimode microplate reader, the filled moats of the plate function as passive humidity control. This allows for simultaneous incubation and signal detection during long-term applications with living cells inside Varioskan LUX multimode Microplate reader with Integrated Gas Module without significant evaporation of the liquid in the sample wells. In several collaborative studies it was shown that applications that could not be done before had become possible.

Ordering information

Edge 2.0 96-Well Plates

Cat. No.	Surface	Color	Total vol. µl/well	Sterile	With lid	Units/Case/Pack
167425	Nunclon Delta Treated	Clear	400	Yes	Yes	1/50
167542	Nunclon Delta Treated	Clear	400	Yes	Yes	10/160
167574	Nunclon Delta Treated	Clear	400	Yes	No	1/50
167554	Nunclon Delta Treated	Clear	400	Yes	No	10/160
267427	Non treated	Clear	400	Yes	Yes	1/50
267544	Non treated	Clear	400	Yes	Yes	10/160
267576	Non treated	Clear	400	Yes	No	1/50
267556	Non treated	Clear	400	Yes	No	10/160
267566	Non treated	Clear	400	No	No	10/160
267578	Non treated	Clear	400	No	Yes	10/160

Thermo Scientific™ Nunclon™ Delta is a Nunc certified cell culture-treated surface that facilitates cell attachment and growth. Perfect for most applications with adherent cell cultures.

Find out more at www.eu.fishersci.com/go/edge2

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