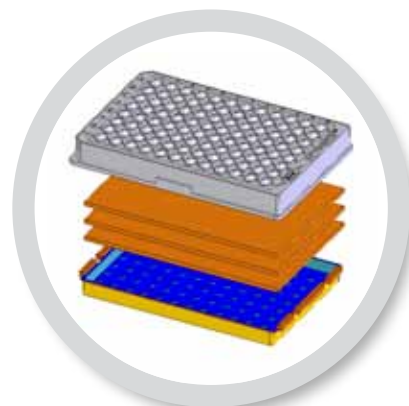
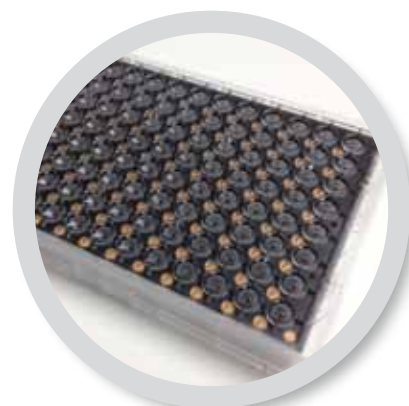
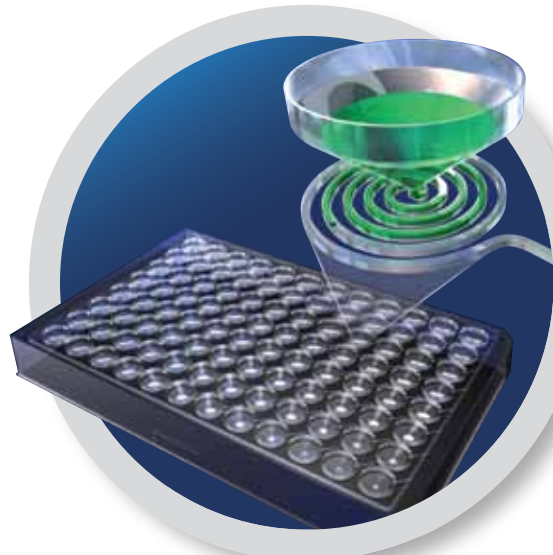


Optimiser™ Technology



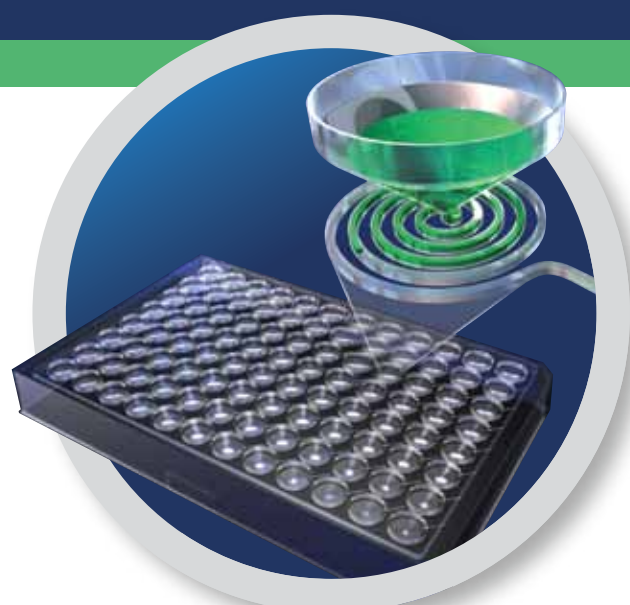
Optimiser™ Technology – Now Automation Compatible:



Automation Compatible:

OptiMax™ Microplates incorporate Optimiser™ technology designed to ANSI/SBS standards, in a automation compatible format with fully integrated absorbent pads.

Plate or Platform? **Yes.**



UNPARALLELED SPEED

1-2 hour assays

UNPARALLELED VALUE

Save 20x on sample & up to 20x on reagents

UNPARALLELED SENSITIVITY

Femtogram level sensitivity



Optimiser™ is an immunoassay platform that delivers unparalleled performance and is easier to use than a standard microplate.



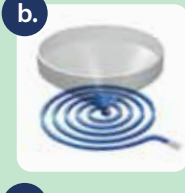
How is Optimiser™ like my current immunoassay plates?

Optimiser™ conforms to SBS/ANSI standards for traditional microplates. Researchers can use the same equipment and assay reagents they currently use.



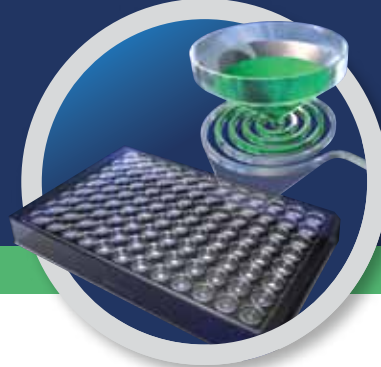
How is Optimiser™ Different from my existing plates?

- The wells in Optimiser™ are only used for reagent loading. **(a.)**
- All assay reactions occur in the 200 x 200 µm microfluidic reaction chamber under each loading well. **(b.)**
- Traditional wash steps replaced by simple flush. **(c.)**
- A fluorescent reader is required.



Optimiser™ Microchannels, compared to conventional plates provide a 50% increase in surface area and a 50X increase in surface area to volume ratio – together with dramatically reduced diffusion distances results in increased surface binding and rapid assay kinetics.

The Microfluidic Design of Optimiser™ Provides the Following Benefits...

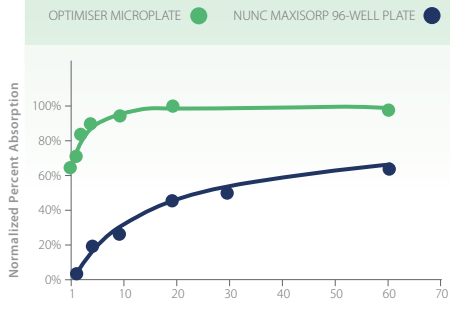


FAST ASSAYS

90% Binding in 5 Minutes:

Binding efficiency of FITC labeled IgG in Optimiser™ and Conventional High Binding Plates.

- 10 Minute Incubation Steps
- 1-2 Hour Assays



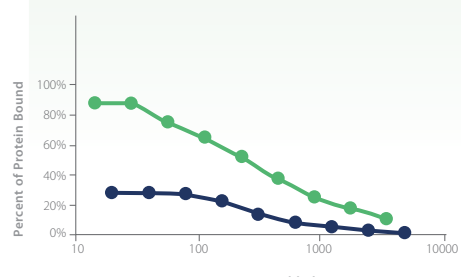
SAVE SAMPLE

Less Sample, More Binding:

Characteristics of IgG Adsorption in Optimiser™ and High Binding Conventional Plates.

Quantity of FITC labeled IgG used in Optimiser™ was five-fold less (5 µl of 8 µg/ml) than in NUNC MaxiSorp plates (100 µl @ 2µg/ml)

- Conserve Precious Sample
- Save on Reagents



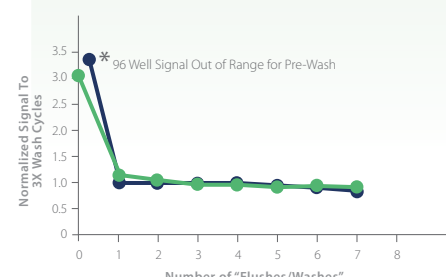
ELIMINATE WASH STEPS

Elimination of Traditional Wash:

4.5 µl working volume and microchannel flow characteristics allow for elimination of wash steps.

Adding next reagent in assay step flushes unbound reagents from the microchannels.

- Eliminate Wash Steps
- Eliminate Wash Steps



Learn More About Optimiser™ Technology



See video of Optimiser™ in Action



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