

# Streptavidin-coated Microplates

Streptavidin-coated solid phases serve as reliable binding surfaces for all types of biotinylated molecules. Numerous ligands can be biotinylated simply and reliably, and due to the low molecular weight of biotin (244 Da) the functionality of the molecules is normally not impaired.

Thus streptavidin-coated solid phases make it possible to simply and rapidly isolate, determine and quantify components from a reaction mixture. By immobilising the biotinylated substance, it is also possible to reproduce complete reaction chains on a streptavidin solid phase, e.g. enzyme immunoassays, enzyme activity assays, DNA hybridisation techniques, quantification of PCR products and receptor/ligand studies. The high-purity streptavidin is bound to the plate surface in a uniform and stable layer.

The coefficient of variation from well to well is under 5%.

The streptavidin solid phase is treated with an additional blocking

step in order to minimise any unspecific binding, therefore, "pre-blocking" of plates is not necessary. The high stability of the coating and the high affinity between streptavidin and biotin enables unusually stringent washing conditions, which can have a positive effect on the signal-to-noise ratio of the measurement (maybe limited by the stability of the biotinylated ligand).

- Shelf-life: Up to 3 years at room temperature
- Pre-blocking: All plates are pre-blocked and ready-to-use
- Robustness of the coating under the following conditions:
  - Temperature resistance up to 75°C
  - pH range 4 – 10
  - 1% SDS (37°C, 1h)
  - 50% formamide (56°C, 1h)
  - 4 M urea (37°C, 1h)
  - 4 M guanidinium thiocyanate (15 – 25°C, 1h)

	96 Well Microplate	384 Well Microplate
Streptavidin-coating (in relation to volume)	300 µl	90 µl
Biotin binding capacity <sup>1</sup>	> 5 ng/well or > 20 pmol/well	> 1.5 ng/well or > 6 pmol/well
Coating variance <sup>2</sup>	< 5 %	< 8 %
Streptavidin leaching <sup>3</sup>	< 5 ng/well	< 1 ng/well

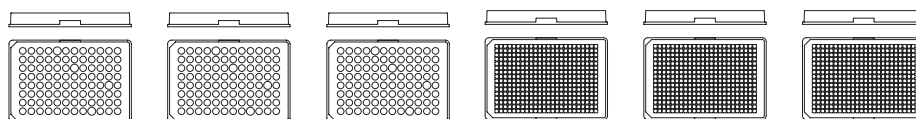
<sup>1</sup>Biotin binding capacity: determined by competition test; <sup>2</sup>Coating variance: deviation of the coating within the wells of a plate;

<sup>3</sup>Streptavidin leaching: dissolution of streptavidin during incubation



## 96, 384 Well Streptavidin-coated Microplates solid bottom, clear / white / black

- Further streptavidin-coated microplates are available on request



Cat.-No.	655 990	655 995	655 997	781 990	781 995	781 997
Well format	96 well	96 well	96 well	384 well	384 well	384 well
Well profile	C-bottom	C-bottom	C-bottom	F-bottom	F-bottom	F-bottom
Bottom	solid	solid	solid	solid	solid	solid
Colour	clear	white	black	clear	white	black
Streptavidin-coating	+	+	+	+	+	+
Sterile	-	-	-	-	-	-
Lid	-	-	-	-	-	-
Quantity per bag/case	5/40	5/40	5/40	5/40	5/40	5/40