

STREPTAVIDIN COATED SURFACE –HIGH BINDING CAPACITY

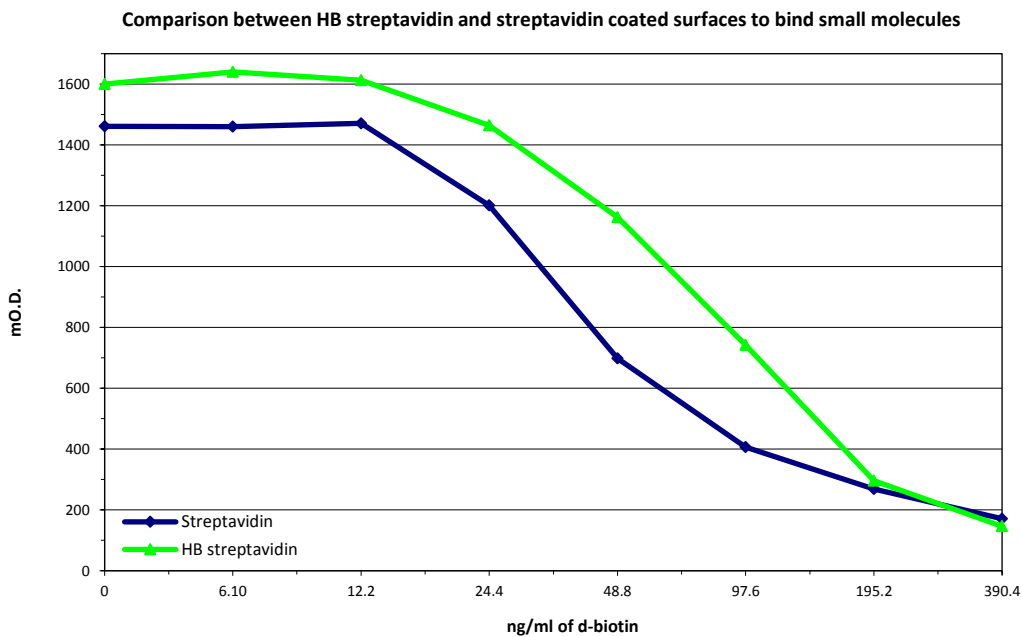
TECHNICAL NOTE N. 31

1. comparison between HB streptavidin and streptavidin coated surfaces to bind small molecules (biotin, MW= 244)

HB streptavidin and streptavidin coated wells were incubated with biotin solutions (from 0 to 390.4 ng/ml) containing 2 ng/ml of biotinylated peroxidase for 30' R.T.

After a washing step, the wells were incubated with TMB and blocked with sulphuric acid 1N.

The O.D. values were read at 450 nm.



The two microplates show different binding curves towards biotin.

Streptavidin coated plate shows a binding capacity of ~ 2.2 ng*/ well (100 µl volume)

*2.2 ng d-biotin = 9 pmol

HB streptavidin coated plate shows a binding capacity of ~ 9 ng**/ well (100 µl volume)

** 9 ng d-biotin = 37 pmol

Binding capacity of HB streptavidin coated plate	> 35 pmol/ well (100 µl volume)
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