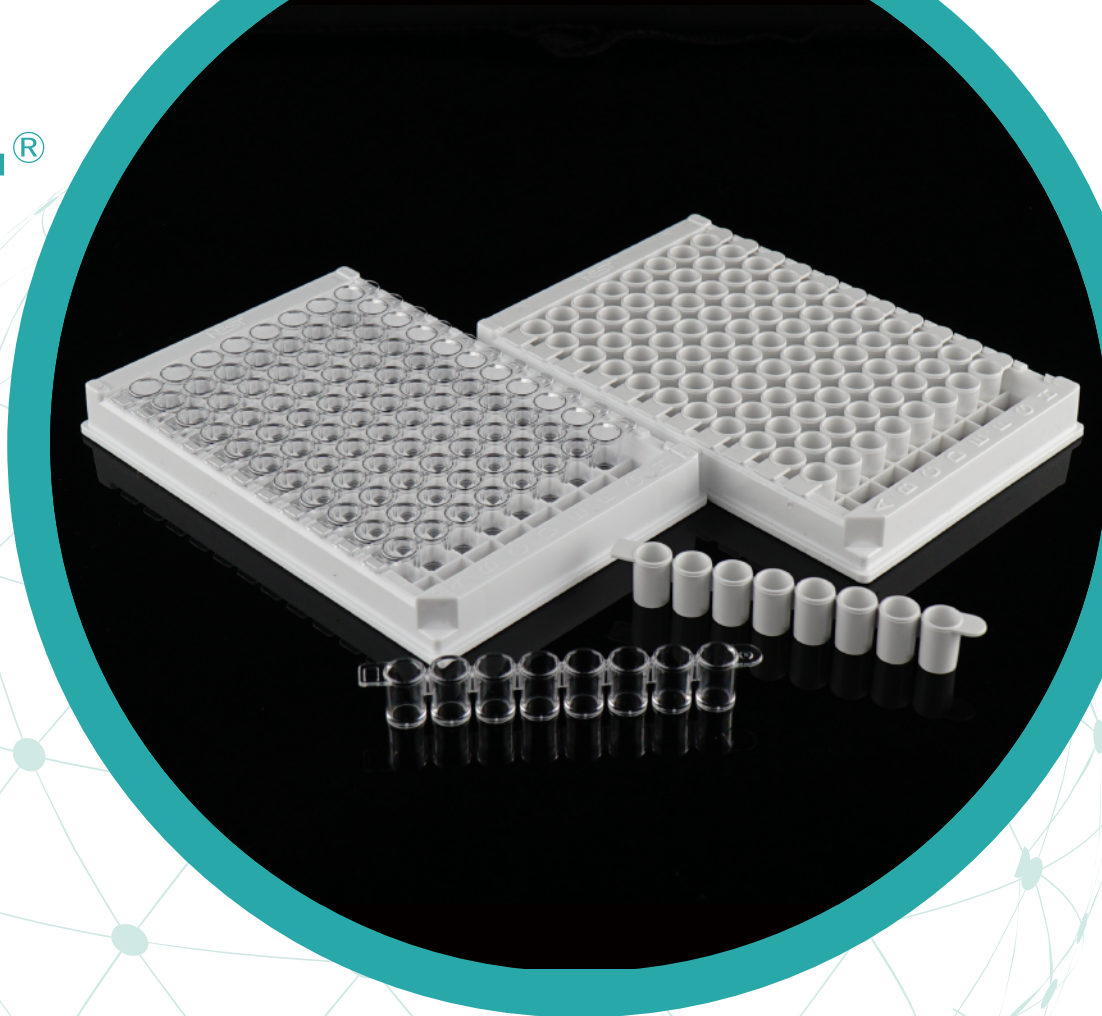


# NEST®



## Elisa Plates

### Product description

NEST ELISA plate, made of polystyrene, is a safe, reliable and effective supporter in enzyme-linked immuno-absorbent assay (ELISA), a commonly used method of detecting and quantifying the presence of target biochemical substances. A key step in ELISA is the binding of one assay component to the solid surface by passive adsorption. The features of the plates are crucial for the adsorption of antigens, antibodies and antigen-antibody complexes.

ELISA plates from NEST adopts a unique surface treatment process, allowing to obtain ideal results in ELISA tests which are extensively employed in vitro diagnostics in medical and clinical laboratories.

### Product Information

Product Number	Style	Specification	Binding capacity	Color	Packing
504201	detachable	8 wells * 12 strips	high binding	clear wells + white frame	50 plates/case
514201	non-detachable	96 wells	high binding	clear	50 plates/case
<b>NEW</b> 504271	detachable	8 wells * 12 strips	high binding	white	50 plates/case

## Product category

### △ Choose ELISA plate color based on the type of assays:

**Clear plate -- colorimetric assays**、**White plate -- luminescent assays**

Note: Clear ELISA plates cannot be used for luminescent assays. Because under normal conditions, the emitted light in a chemiluminescent reaction is isotropic. If a clear ELISA plate is used, the emitted light will scatter in all directions, which in turn causes crosstalk, a phenomenon that a signal produced in a well interferes with the signals of the adjacent wells.

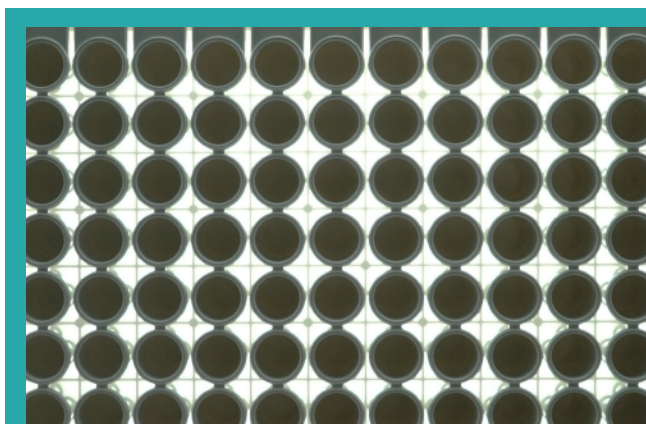
### △ Choose ELISA plates according to the binding capacities

The specially treated surface of the ELISA plates can bind to biomacromolecules with ionic groups or hydrophobic sites or other media (>10kD). Its protein-binding capacity can reach 400~500ng IgG/cm<sup>2</sup>. High-binding ELISA plates can improve the sensitivity and relatively reduce the concentration and amount of the coating proteins. The drawback is that it is easier to produce non-specific reactions.

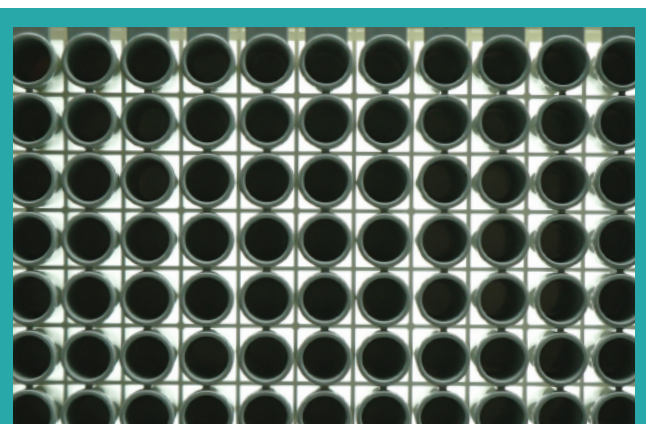
After the antigen or antibody being coated, non-ionic detergents cannot effectively block the sites not bound to proteins, and proteins should be used for blocking.

## Product properties

- ◇ The plates are made of polystyrene and are designed specifically for ELISAs. They present good adsorption performance and low blank value.
- ◇ Uniform well thickness and well size.
- ◇ High batch-to-batch stability and low coefficient of variation (CV) value.
- ◇ Both detachable and non-detachable flat-bottom plates are offered for customers to choose from based on their applications.
- ◇ The letters and numbers on the frame of the plates are convenient for detection and identification in experiments.
- ◇ High transparency of clear plate bottom.
- ◇ White plates are best suited for luminescence measurements as they reflect the signal instead of absorbing it and hence enhance the luminescence signals. Raw materials show good light-proof properties, which greatly reduce well-to-well signal interference.(see below)



Brand C



NEST

## Product data

Clear high-binding ELISA plate, OD (optical density) values observed at 450nm

	Brand C			NEST		
A	0.051	0.051	0.051	0.05	0.05	0.049
B	0.051	0.051	0.051	0.051	0.05	0.05
C	0.051	0.05	0.052	0.05	0.05	0.051
D	0.051	0.051	0.05	0.05	0.051	0.051
E	0.051	0.051	0.05	0.05	0.051	0.051
F	0.05	0.052	0.051	0.05	0.049	0.051
G	0.052	0.051	0.05	0.05	0.051	0.05
H	0.052	0.051	0.051	0.05	0.049	0.049
CV	1.22%			1.40%		

The CV of blank values is low, indicating good well-to-well consistency in ELISA plates from NEST; there is no significant difference compared with plates from some imported brand C.