

# PROTAMINE SULFATE COATED ELISA PLATE

Catalog No. NM-MA-P003

This product is a Protamine sulfate coated ELISA 96-well plate. Protamine sulfate is a highly positively charged protein that binds to negatively charged DNA. These plates are ideal for improving the accuracy and reproducibility of any plate-based assay where DNA is bound to the solid phase, such as those for DNA damage detection.

## Specifications

| Catalog No. | Description                                                         | Quantity  |
|-------------|---------------------------------------------------------------------|-----------|
| NM-MA-P003  | PROTAMINE SULFATE COATED ELISA PLATE 96 x 10 ( 96 well x 10 plates) | 10 plates |

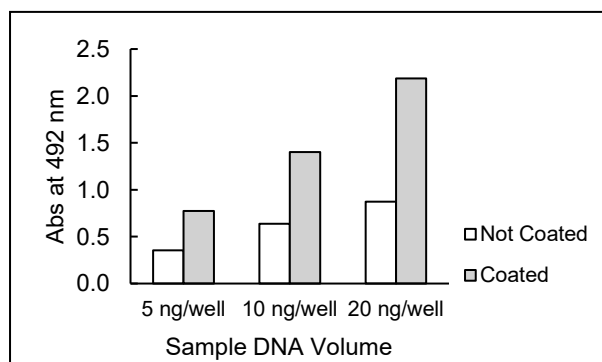
## Product Information

- High DNA binding capacity DNA: native and denatured; damaged or undamaged.
- Steady binding of a small amount of DNA consistent.
- After DNA binding, plates should be used within one week.

## Example of method

- 1) Add 50  $\mu$ L of DNA solution (sample or control) in PBS to each well. Evaporate plates to dryness (overnight, 37  $^{\circ}$ C).
  - 2) Wash each well 5 times with 150  $\mu$ L of Wash Buffer.
  - 3) After blocking the each well, apply primary antibody and detect appropriately.
- \* These plates work well in DNA damage detection ELISAs using the following antibodies available from Cosmo Bio:  
Anti-CPDs (Cat No. CAC-NM-DND-001)  
Anti-6-4PPs (Cat No. CAC-NM-DND-002)  
Anti-DewarPPs (Cat No. CAC-NM-DND-003).
- \* Optimal sample volume/concentration should be determined by user.

## Results



### Protamine Sulfate coating increases DNA binding capacity.

UV-irradiated DNA solution (5-20 ng) was added to wells uncoated or coated with protamine sulfate followed by incubation with anti-CPDs monoclonal antibody (Cat No. CAC-NM-DND-001). Detection signals from bound antibody in coated wells was up to 60% stronger than in un-coated wells.

## Notes

- (1) Protect from the light.
- (2) Store at room temperature in the dark.
- (3) The unopened product is stable for 2 years from the shipping date.

*For research use only, Not for diagnostic use.*



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