

## MALEIMIDE COATED SURFACES

The maleimide coated surfaces offer a powerful instrument for binding biomolecules containing free sulfhydryl groups (e.g. Peptides that contain a terminal cysteine or thiol containing haptens) , or reducible disulfide bonds that are difficult to coat onto polystyrene plates. These coated plates are a very useful tool for assays requiring site-directed orientation of particular biomolecules especially during antibody production.

At pH 6,5 – 7,5 maleimide reacts with free sulfhydryl groups to yield stable bonds, while the reaction with amines becomes significant at pH > 7,5.

If sulfhydryl – containing peptides and proteins oxidize in solution and form disulfide bonds, they must be preventively reduced to free sulfhydryls for allowing interaction with maleimide.

Plates are coated at level of 100 µl and blocked with 200 µl of a proprietary blocking reagent to reduce nonspecific binding