

MALEIMIDE COATED PCR PLATES

The Biomat product is a PCR plate coated with maleimide and treated to block non-specific binding sites and to maintain stable activity.

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 PCR 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 amine 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.

Product specifications

Coating

A derived maleimide is coated using 100 µl/tube. The PCR plates are post-coated (blocked) for low non specific binding and long-term stability.

Storage and Stability

The Maleimide PCR plates if unopened, are stable refrigerated until the expiration date printed on the label.

If opened, store in closed pouch with desiccant and use within the expiration date.