



## PRODUCT INFORMATION

### Biotin Coated Plates Clear 8-well Strip

PRODUCT CODE: X-MTP-0004-5X

STORAGE: room temperature

### PRODUCT DESCRIPTION

Biotin binds to streptavidin and avidin with high affinity. The streptavidin-biotin bond is one of the strongest non-covalent interaction in nature, making it extraordinarily robust. BioThinx Biotin coated plates offer a convenient way to carry out one of the most useful interactions in immunochemistry that involves the specificity binding of biotin to streptavidin or avidin. BioThinx Biotin coated plates are useful for detecting streptavidin or avidin conjugated molecules, or biotin antibodies including enzyme conjugates in ELISA procedures.

### PRECAUTIONS AND DISCLAIMER

This product is for LABORATORY RESEARCH USE ONLY, not for diagnostic, therapeutic, drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

### FORMULATION

Biotin coated micro assay plate: 96 wells, configured in twelve 1x8 strips, each coated plate is packed in a barrier bag with desiccant. The wells are coated to a 100µl depth and are supplied pre-blocked.

### PREPARATION AND HANDLING

The following protocol is a simple direct ELISA protocol and the protocol and reagents used will have to be optimized for specific applications and assays. Avoid using buffers containing Biotin.

1. Wash the wells to be used with 200µl Wash Buffer (tris buffered saline or phosphate buffered saline, pH 7-7.5, containing 0.05 % TWEEN® 20 or an appropriate Wash Buffer of choice.
2. Dilute the sample with (tris buffered saline or phosphate buffered saline, pH 7-7.5, containing 0.05 % BSA or an appropriate Dilution Buffer of choice and add 100µl diluted sample to each well.
3. Incubate at room temperature for 1-2 hours with shaking.
4. Wash each well three times with 200µl Wash Buffer.
5. Add 100µl enzyme labelled primary antibody if the primary biotin binding probe was not already enzyme conjugated.
6. Incubate at room temperature for 0.5-1 hour with shaking.
7. Wash each well three times with 200µl Wash Buffer.
8. Detect the label signal with appropriate substrate.

### STORAGE / STABILITY

Store unopened at ambient temperature. Once opened the plates can be stored in the resealable bag (ZipLoc) with desiccant.

### RECOMMENDED RETEST DATE

07/2021

### BACKGROUND REFERENCES

1. Wong, J., et al., Direct force measurements of the streptavidin –biotin interaction, Biomolecular Engineering, 16, 45-55 (1999).



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