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## Product Information

### Penicillinase from *Escherichia coli* 205 TEM R+ (566)

Product Number **P 3553**  
Storage Temperature 2-8 °C

#### Product Description

Enzyme Commission Number: 3.5.2.6  
CAS Number: 9001-74-5  
Molecular Weight: 25 kDa<sup>1</sup>  
pI: 5.7<sup>1</sup>  
Synonyms: Cephalosporinase, B-lactamase II,  
β-Lactamase I, penicillin amido-B-lactam hydrolase

Penicillinase catalyzes the following reaction:

B-Lactam + H<sub>2</sub>O → a substituted β-amino acid

This enzyme has a broad specificity including both penicillins and cephalosporins. Reported K<sub>M</sub> values are: benzylpenicillin (0.022 mM), ampicillin (0.002 mM), carbenicillin (0.008 mM), and cephaloridine (0.6 mM).<sup>1</sup>

#### Precautions and Disclaimer

For Laboratory Use Only. Not for drug, household or other uses.

#### Preparation Instructions

This enzyme is soluble in 100 mM potassium phosphate buffer, pH 7.0 (0.5 mg/ml), yielding a clear solution.

#### References

1. Richmond, M. H., Beta-lactamase (*Escherichia coli* R+TEM. *Methods Enzymol.*, **43**, 672-677 (1975).

TMG/RXR 1/03

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