

Product Information

Agarase from *Pseudomonas atlantica*

Catalog Number **A6306**
Storage Temperature 2-8 °C

CAS RN: 37288-57-6

E.C. 3.2.1.81

Synonyms: β -Agarase; Agarose 4-glycanohydrolase

Product Description

This enzyme has a molecular weight of 32 kDa and hydrolyzes the 1,4- β -D-galactosidic linkages in agarose, giving the tetramer as the predominant product.

It may be used to investigate the structure of different galactans and as an enzymatic reagent for degrading agarose used as a gel medium in electrophoresis. This allows the isolation of oligonucleotides and DNA fragments from gels prepared with low melting point agarose.

Reagent

Supplied as a lyophilized powder containing phosphate buffer salts. May contain bovine serum albumin

Specific Activity: $\geq 5,000$ units/mg protein (Lowry)

Unit Definition: One unit will produce 1.0 μ g of reducing sugar (measured as D-galactose) from agar per minute at pH 6.0 at 40 °C.

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Preparation Instructions

The product is soluble in potassium phosphate buffer, pH 6.0, (0.2 mg/ml), yielding a clear, colorless solution.

Storage/Stability

Store at 2-8 °C.

References

1. Morrice, L. M. et al., *Eur. J. Biochem.*, **135**, 553-558 (1983).
2. Yaphe, W., *Can. J. Microb.*, **3**, 987-993 (1957).
3. Duckworth, M., and Turvey, J.R., *Biochem. J.*, **113**, 687-692 (1969).

CS,PHC 02/09-1