

Collagenase Activity Assay Kit

Product Information

Cat.No.

Kit-0242

Product Overview

Collagenase Activity Assay Kit provides a quick and easy way to determine activity of Collagenase. The assay measures collagenase activity using a synthetic peptide (FALGPA) that mimics the structure of collagen. It is suitable for measuring activity of bacterial collagenases such as from *Clostridium histolyticum* type I-XI. This assay can also be used for screening or characterization of collagenase inhibitors. The limit of detection for this assay is 0.02 mU Collagenase.

Description

Collagenase (EC 3.4.24.3) is an enzyme in the matrix metalloproteinase family that breaks down collagen, assisting in degradation of the extracellular matrix, which is a key step in the pathogenesis of bacteria. Collagen is an abundant structural protein present in the connective tissue of animals. Collagenase has been used clinically for the treatment of Dupuytren's contracture, an affliction characterized by a thickening of connective tissue.

Applications

Functional Studies

Target Species

Reacts with: Bacteria

Storage

Store kit at -20°C in the dark immediately upon receipt. Kit has a storage time of 1 year from receipt, providing components have not been reconstituted. Refer to list of materials supplied for storage conditions of individual components. Observe the storage conditions for individual prepared components in section 5. Aliquot components in working volumes before storing at the recommended temperature. Reconstituted components are stable for 2 months

Kit Components

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Collagenase Activity Assay Kit

Components 100 tests
Collagenase 1 x 1ml
Collagenase Assay Buffer 1 x 20ml
Collagenase Substrate 1 x 4ml
Inhibitor 1 x 50µl

Detection method Colorimetric

Compatible Sample Types

Cell Lysate, Purified protein

Sensitivity

>20 µU