Collagenase Activity Assay Kit

Cat. No. Kit-0242 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Collagenase Activity Assay Kit provides a quick and easy way to determine activity of Collagenase. Theasay 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 -20ºC in the dark immediately upon receipt. Kit has astorage time of 1 year from receipt, providing components have not been reconstituted.Refer to list of materials supplied for storage conditions of individualcomponents. Observe the storage conditions for individual preparedcomponents in section 5.Aliquot components in working volumes before storing at therecommended temperature. Reconstituted components are Stablefor 2 months

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Kit Components	Components 100 testsCollagenase 1 x 1mlCollagenase Assay Buffer 1 x 20mlCollagenase Substrate 1 x 4mlInhibitor 1 x 50µ
Detection method	Colorimetric
Compatible Sample Types	Cell Lysate, Purified protein
Sensitivity	>20 µ

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