

# 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. 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.

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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

 Tel: 1-631-559-9269 1-516-512-3133 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA