

FUJIFILM

Wako

Code No. 036-23141 (240,000 units)

Collagenase, recombinant, Animal-derived-free

コラゲナーゼ, 組換え体, 動物由来物フリー

Collagenase is generally used to digest the connective components in tissue samples to individual cells. This product is an animal free recombinant collagenase from *G. hollisae* produced by the *Brevibacillus* expression system. It digests insoluble and soluble Type I collagen, but not casein. It is shown that the specific activity of this enzyme is higher than that of *C. histolyticum* collagenase.

This product is for laboratory research use only ; use in any such application is the responsibility of the user.

Source : *Brevibacillus choshinensis* expressed *Grimontia hollisae* collagenase

Formulation : Lyophilized from 20 mmol/L HEPES, 30 mmol/L NaCl, 2 mmol/L CaCl₂, pH 7.5 (0.2 μm filtered).

Molecular weight : 61,900 (theoretical value)

Activity : Indicated on the label.

Unit Definition : One collagenase unit is the amount of enzyme which digests the 1 μg FITC-labeled Type I collagen in 1 minute at pH 7.5 and 30 °C.

Trans*

単位の定義 : pH7.5、30 °C で 1 分間に 1 μg の FITC 標識 I 型コラーゲンを分解する酵素量を 1 unit とする。

Reconstitution : Reconstitute in 2 mL sterile water. Stir gently at 4 °C for 30 min. to ensure complete dissolution. This solution can then be diluted into a buffer containing at least 1 mmol/L Ca²⁺ ions.

Once reconstituted, collagenase should be aliquoted and stored at ≤ -20 °C. Avoid repeated freeze-thaw cycle.

Optimum pH : 7.5 - 8.5

Optimum temperature : 30 - 40 °C

Inhibitors : EDTA, EGTA, *o*-Phenanthroline

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Endotoxin : Less than 10 EU/mg.

[Expiration date] Indicated on the label.

[Storage] Store at -20 °C.

[Package] 240,000 units

[Caution] When filter sterilization is performed, use a low protein binding filtration unit.

[Reference] Teramura N. *et al.* : *J. Bacteriol.*, **193**, 3049 (2011).

* : Trans is the Japanese translation.

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