

FUJIFILM

Wako

Code No. 166-24231 (1 mg)

## Plasmin Solution, from Human Plasma

## プラスミン溶液, ヒト血漿由来

Plasmin exhibits preferential cleavage at the carboxyl side of lysine and arginine residues with higher selectivity than trypsin. This product dissolves the fibrin of blood clots and acts as a proteolytic factor in a variety of other processes including embryonic development, tissue remodeling, tumor invasion and inflammation.

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

**Formulation** : 100 mmol/L sodium phosphate buffer (pH 7.3) containing 1mmol/L 6-aminohexanoic acid and 25% glycerol

**Source** : Human Plasma

**Activity** : Indicated on the label

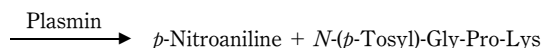
**Protein Concentration** : Indicated on the label

**CAS No.** : 9001-90-5

## Assay Method

## 1. Principle

*N*-(*p*-Tosyl)-Gly-Pro-Lys *p*-nitroanilide



## 2. Reagents

A. 0.1 mol/L Phosphate Buffer, pH 7.8

B. Substrate Solution

Dissolve 17.8 mg of *N*-(*p*-Tosyl)-Gly-Pro-Lys *p*-nitroanilide acetate in 2 mL of water

C. Enzyme Solution

Add Reagents A to 40  $\mu$ L of this product to bring the final volume up to 10 mL. Store on ice.

Trans \*

## 2. 試薬

A. 0.1 mol/L リン酸緩衝液、pH 7.8

B. 基質溶液

*N*-(*p*-トシル)-Gly-Pro-Lys *p*-ニトロアニリド酢酸塩 17.8 mg を 2 mL の水に溶解する。

C. 酵素溶液

本品 40  $\mu$ L に A 液を加え、10 mL にする。氷冷する。

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## 3. Procedure

| Reagent                                                                                  | Test    | Blank   |
|------------------------------------------------------------------------------------------|---------|---------|
| A                                                                                        | 2.70 mL | 2.70 mL |
| B                                                                                        | 0.15 mL | 0.15 mL |
| Pre-incubate at 25 °C for 5 minutes.                                                     |         |         |
| C                                                                                        | 0.10 mL | —       |
| A                                                                                        | —       | 0.10 mL |
| Measure the absorbance at 405 nm wavelength with Reagent A as the control for 5 minutes. |         |         |

## 4. Unit Definition

One Plasmin unit is the amount of enzyme which causes the production of 1  $\mu$ mol of *p*-Nitroaniline for 1 minute at 25 °C and pH 7.8 with *N*-(*p*-Tosyl)-Gly-Pro-Lys *p*-nitroanilide acetate as the substrate.

## (Calculation)

$$A = (E_1 - E_2) \times 2.95 \times 1000 \times \frac{1}{10.4 \times 40} \times \frac{10}{0.1}$$

A : Activity (units/ $\mu$ L)

$E_1$  : Absorbance change per minute in Test

$E_2$  : Absorbance change per minute in Blank

10.4 : Milli-molar extinction coefficient of *p*-Nitroaniline in 405 nm

Trans \*

## 4. 単位の定義

上記の条件で、*N*-(*p*-トシル)-Gly-Pro-Lys *p*-ニトロアニリド酢酸塩を基質として、25 °C、pH 7.8において1分間に1  $\mu$ molの*p*-ニトロアニリンを生成する酵素量を1 unit とする。

## (計 算)

$$A = (E_1 - E_2) \times 2.95 \times 1000 \times \frac{1}{10.4 \times 40} \times \frac{10}{0.1}$$

A : 活性 (units/ $\mu$ L)

$E_1$  : 本試験の1分間当たりの吸光度変化

$E_2$  : 空試験の1分間当たりの吸光度変化

10.4 : *p*-ニトロアニリンのミリモル吸光係数

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**Storage** : Store at  $-20^{\circ}\text{C}$

**Warning** : This product uses blood ingredients which have tested negative for the HBs antibody, the HIV antibody and the HCV antibody. However, precautions should be taken when handling this product to prevent possible infection.

\* : Trans is the Japanese translation.

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