

FUJIFILM**Wako**

Code No. 201-19181 (1 g)
207-19183 (5 g)
209-19182 (25 g)

Trypsin, from Porcine Pancreas

トリプシン, ブタ膵臓由来

Trypsin is a serine protease that cleaves peptides at the C-terminus of basic amino acid residues (Lysine and Arginine).

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

Source : Porcine Pancreas

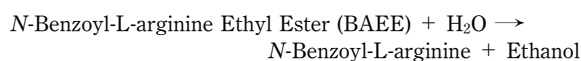
Trypsin Activity : Indicated on the label

CAS No. : 9002-07-7

EC No. : 3.4.21.4

Assay Methods

1. Principle



2. Reagents

A. 0.067 mol/L Phosphate Buffer, pH 7.6

B. BAEE Solution

Dissolve 86 mg of *N*-Benzoyl-L-arginine Ethyl Ester Hydrochloride in 100 mL of water. Transfer 10 mL of the solution and dilute with Reagent A to bring the volume up to 100 mL.

C. 0.001 mol/L HCl

D. Trypsin Solution

Dissolve 50 mg of this product in 100 mL of Reagent C. Transfer 2.5 mL of the solution and dilute with Reagent C to bring the volume up to 100 mL.

3. Procedures

Reagent	Test	Blank
B	3.0 mL	3.0 mL
Pre-incubate at 25 °C for 5 minutes		
D	0.2 mL	—
C	—	0.2 mL
Immediately, measure the absorbance of 253nm at 25 °C for 5 minutes with water as reference.		

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4. Unit Definition

One USP Unit is the amount of enzyme, which increases 0.003 of absorbance per minute under the above conditions.

(Calculation)

$$A = (E_3 - E_4) \times \frac{1}{0.003} \times \frac{10000}{0.2 \times S \times 2.5}$$

A : Trypsin Activity (USP Units/mg)

E_3 : Absorbance change per minute in the test

E_4 : Absorbance change per minute in the blank

0.003 : Absorbance change per minute per 1 USP Unit

0.2 : The amount of diluted trypsin solution (mL)

S : The amount of weighed this product (mg)

Trans *

4. 単位の定義

上記の条件で、1 分間に吸光度を 0.003 増加させる酵素量を 1 USP Unit とする。

(計 算)

$$A = (E_3 - E_4) \times \frac{1}{0.003} \times \frac{10000}{0.2 \times S \times 2.5}$$

A : トリプシン活性 (USP Units/mg)

E_3 : 本試験の 1 分間あたりの吸光度変化

E_4 : 空試験の 1 分間あたりの吸光度変化

0.003 : 1 USP Unit あたりの吸光度変化/分

0.2 : 本品溶液の使用量 (mL)

S : 量りとした本品量 (mg)

〔Storage〕 Store at 2~10 °C, in the dark

〔Package〕

Code No.	Packaging
201-19181	1 g
207-19183	5 g
209-19182	25 g

* : **Trans** is the Japanese translation.

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