

## ENGLISH

S-2302TM

For Laboratory Use Only

For General Laboratory Use

S-2302<sup>TM</sup>

S-2302 is a chromogenic substrate for plasma kaltikrein.

COMPOSITION

Each vial contains chromogenic substrate S-2302 25 mg and mannitol 60 mg as a bulking agent.

PRECAUTIONS AND WARNINGS:

Hazard class: None

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Precautionary statements: None
Supplemental Hazard Information: Up to 2.9% of the
mixture consists of component of unknown acute toxicit
(oral, dermal, inhalation) for the human health and
unknown hazard to the aquatic environment.

CHEMISTRY

Chemical name: H-D-Prolyl-L-phenytalanyl-L-arginine-p-nitroaniline dhydrochloride. Formula: H-D-Pro-Phe-Arg-pNA · 2 HCI

Formula: Mol. wt:

611.6

1.27 - 104 mol\* - L - cm\* £316 nm

> 10 mmol/L in H<sub>2</sub>O

Solubility: Stability:

> 10 mmoV. In H<sub>2</sub>O. Substance: Stable until expiry date if stored at 2-8°C. Avoid exposure to light. The substance is hygroscopic and should be stored dry. Solution: 4 mmoVi in H<sub>2</sub>O is stable for more than 6 months at 2-8°C.

Contamination by microorganisms may cause hydrolysis.

Suitable stock

PRINCIPLE

4 mmol/L in H₂O.

Enzyme

H.D.Pro-Phe Arg-pNA ------> H.D.Pro-Phe Arg OH+pNA(ye'lo The method for the determination of activity is based on the difference in absorbance (optical density) between the pNA formed and the original substrate. The rate of pNA formation, i.e. the increase in absorbance per second at 405 nm, is proportional to the enzymatic activity and is conveniently determined with a photometer.





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