

# Human Prekallikrein Pool

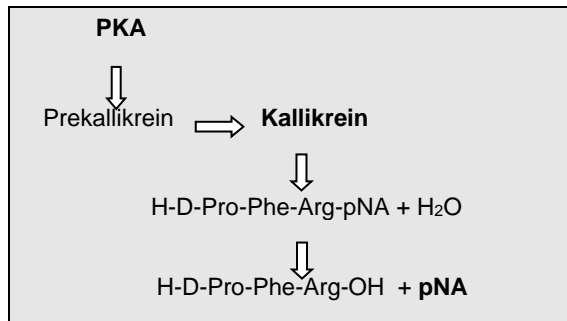
**A Human Prekallikrein Pool for the determination of Prekallikrein Activator (PKA) in Human Blood Products and Biologicals according to the European Pharmacopoeia.**

PRODUCT CODE: PW30304

4 x 2.0 ml

**For Research Use Only**

## INTRODUCTION



The Human Prekallikrein pool is prepared according to the procedure recommended by the European Pharmacopoeia (EP) for assays of Prekallikrein Activator (PKA). The product is intended for use in assays of PKA based on the EP method.

In the EP method for PKA the Human PreKallikrein pool is first activated to plasma kallikrein by PreKallikrein activator (PKA -FXIIa) in the test sample. The kallikrein formed then releases p-nitroaniline (pNA) from a chromogenic kallikrein substrate. The rate at which the pNA is released is measured photometrically at 405 nm in a microtitre plate reader and the amount of pNA released is proportional to the amount of PKA present in the preparation.

## CONTENTS

The reagent pack should be stored at 2 to 8°C before use.

- Human PreKallikrein (4 x 2.0ml)**  
Reconstitute in 2.0 ml pre-diluted Buffer A. Leave to stand at room temperature for 10 minutes then mix by gentle shaking, avoiding foam formation and leave for a further 10 minutes before use. Do not filter. Store at room temperature before use for up to 6 hours, or at -20°C for 6 months
- Buffer A concentrate (1 x 6ml)**  
Tris-HCl buffer (100 mmol/l Tris) containing NaCl (24 mmol/l). Store at 4°C.  
The vial contains 6ml of concentrated buffer. Before use dilute the contents of the vial with sterile distilled water to give a final volume of 12ml.

## ADDITIONAL MATERIAL REQUIRED

- Chromogenic Kallikrein Substrate: H-D-Pro-Phe-Arg-pNA.
- PKA Standard

## ASSAY METHOD

Follow the method outlined in the European Pharmacopoeia for assays of Prekallikrein Activator (PKA).

## WARNINGS & PRECAUTIONS

- The Human Prekallikrein pool has been prepared from human plasma. Each single plasma donation used in its production has been tested and found to be non-reactive for HbsAg, Anti-HIV 1 & 2, Anti HCV and Syphilis. However, as a human source product it be treated as a potentially infectious and handled appropriately.
- The buffer contains the preservative thiomersal, a poisonous compound. Do not pipette by mouth
- Care should be taken when handling the reagents contained in this pack.

## LITERATURE

- Longstaff C, Behr-Gross M-E, Daas A, Lackner F. An international collaborative study to replace the 1<sup>st</sup> international standard for prekallikrein activator. Vox Sanguinis 2005; 88:143-151.
- Longstaff C, Behr-Gross M-E, Daas A, Lackner F. Collaborative Study to Establish a new Biological Reference Preparation for Prekallikrein Activator. Pharmedica-Bio, 2005-1, 1-11.

**ALL REAGENTS AND MATERIALS ARE FOR IN VITRO USE ONLY.**



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