

## Innovative Research, Inc.

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# Certificate of Analysis

**Product:** D-VLK-pNA (Plasmin Substrate) – DVLK

**Date:** September, 2002

**Lot:** DVLK

**Molecular Weight:** 555.1 Da

### Composition:

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

### Principle:

H-D-Val-Leu-Lys-pNA  $\xrightarrow{\text{Enzyme}}$  H-D Val-Leu-Lys-OH + pNA

The method for the determination of activity is based on the difference in absorbance between the pNA formed and the original substrate. The rate of pNA formation, i.e. the increase in absorbance per second at 405nm, is proportional to the enzymatic activity and is determined with a spectrophotometer.

### Chemistry:

Chemical Name: H-D-Valyl-L-Leucyl-L-lysine-p-nitroaniline dihydrochloride  
Formula: H-D-Val-Leu-Lys-pNA•2HCl  
 $\epsilon_{\text{max}}$ : 12,700 mol<sup>-1</sup> cm<sup>-1</sup> ( $\lambda_{\text{max}}$ 316 in H<sub>2</sub>O)

### Storage:

Store desiccated at 4°C.  
Suitable stock: 3-4 mmol/L in H<sub>2</sub>O.  
Suggested working concentration: 200 umol/L in TBS. User must determine appropriate actual working concentration.