

# Enzyme Substrates

## Chromogenic and Fluorogenic



### **SPECTROZYME® Series of Chromogenic and Fluorogenic Substrates**

Sensitive and selective high-efficiency oligopeptide chromogenic and fluorogenic substrates for high-volume users and manufacturers of in vitro diagnostic kits.

The **SPECTROZYME®** and **SPECTROFLUOR®** substrates are robust and most suitable for a wide range of applications, permitting preparation of low-background, bacteria-free solutions.

These economical substrates are readily applicable to all manual and automatic spectrophotometers, for coagulation testing, in the clinical laboratory, for in-process control, and in high-volume robotic testing systems and gram-negative endotoxin detection.

The SPECTROZYME and SPECTROFLUOR substrates are also available standardized and packaged ready for use, for in vitro diagnostic kits. They can be supplied co-lyophilized with test zymogens.

### **Applications**

- Coagulation testing
- Clinical laboratory
- In-process control
- High volume robotic testing systems for drug-lead screening
- gram-negative endotoxin testing

### **Structure**

The chromogenic substrates release para-nitroanilide (**pNA**) upon enzymatic digestion and are read spectrophotometrically at a wave-length of **405 nm**.

The fluorogenic substrates release 7-amino-4-methylcoumarin (**AMC**) upon enzymatic digestion and are read at an emission wavelength of **440 nm**.

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# Available Substrates



| <b>SPECTROZYME®</b> | <b>Chromogenic substrate for</b>           | <b>Product #</b> |
|---------------------|--------------------------------------------|------------------|
| SPECTROZYME® LAL/2  | Limulus procoagulant (for two-stage assay) | 200/086          |
| SPECTROZYME® aPC    | activated Protein C                        | 336              |
| SPECTROZYME® FVIIa  | Factor VIIa                                | 217              |
| SPECTROZYME® FIXa   | Factor IXa                                 | 229              |
| SPECTROZYME® Fxa    | Factor Xa                                  | 222              |
| SPECTROZYME® FXIIa  | Factor XIIa                                | 312              |
| SPECTROZYME® TH     | Thrombin                                   | 238              |
| SPECTROZYME® G. Kal | Glandular / Urinary Kallikrein             | 266              |
| SPECTROZYME® P. Kal | Plasma Kallikrein                          | 302              |
| SPECTROZYME® UK     | uPA                                        | 244              |
| SPECTROZYME® tPA    | tPA                                        | 444              |

(vial sizes: e.g. 10 µmole, 50 µmole, 0.5 gram)

| <b>SPECTROFLUOR®</b> | <b>Fluorogenic substrate for</b> | <b>Product #</b> |
|----------------------|----------------------------------|------------------|
| SPECTROFLUOR™ FIXa   | Factor IXa                       | 299F             |
| SPECTROFLUOR™ FXa    | Factor Xa                        | 222F             |
| SPECTROFLUOR™ UK     | uPA                              | 244F             |
| SPECTROFLUOR™ tPA    | tPA                              | 444F             |

(vial sizes: e.g. 10 µmole, 50 µmole)

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