

## PRODUCT SPECIFICATIONS

|                                |  |
|--------------------------------|--|
| <b>Name</b>                    | Anti-h D-Dimer 1403 SPTN-5   |
| <b>Specificity</b>             | Antibody recognizes human D-dimer  |
| <b>Description</b>             | Monoclonal mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components   |
| <b>Product code</b>            | 100228   |
| <b>Product buffer solution</b> | 50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.095 % NaN <sub>3</sub> as a preservative   |
| <b>Shelf life and storage</b>  | 36 months from manufacturing at 2-8 °C   |
| <b>Analyte description</b>     | D-dimer (DD) is a fibrin degradation product created during fibrinolysis when plasmin degrades the fibrin clot. In clinical diagnostics, D-dimer test can be used to exclude deep venous thrombosis (DVT), pulmonary embolism (PE) or disseminated intravascular coagulation (DIC). D-dimer is also valuable for monitoring patients during and after anticoagulant treatment for recurrent DVT. |

## PARAMETERS TESTED ON EACH LOT

|                              |  |
|------------------------------|--|
| <b>Product appearance</b>    | Liquid, may turn slightly opaque during storage          |
| <b>Product concentration</b> | 5.0 mg/ml (+/- 10 %)                                     |
| <b>Immunoreactivity</b>      | 80-120 % compared to the reference sample in an FIA test |
| <b>IEF Profile</b>           | 6.7 - 7.6  |
| <b>Purity</b>                | ≥ 95 %   |

## PARAMETERS DETERMINED DURING PRODUCT DEVELOPMENT

|                                   |   |
|-----------------------------------|---|
| <b>Subclass</b>                   | IgG <sub>2a</sub>                           |
| <b>Association rate constant</b>  | 2.4 x 10 <sup>5</sup> 1/Ms                  |
| <b>Dissociation rate constant</b> | Does not dissociate                         |
| <b>Affinity constant</b>          | Not Applicable (N/A)                        |
| <b>Determination method</b>       | SPR analysis (ProteOn XPR36)                |
| <b>Determination antigen</b>      | FDP-D-Dimer, Chrystal Chem Inc. (Lot SDD-1) |

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**Cross-reactivities**

Cross-reacts with human fibrinogen, others not tested.

**Epitope**

Not Determined (N/D)

**Pair recommendations**

**CAPTURE ANTIBODY**  
1401, 1404, 1405

**DETECTION ANTIBODY**  
1403

Please note that pair recommendations are based on results obtained by our laboratory. Equally good results may be obtained using other pairs and therefore these recommendations are only indicative.

**Product stability**
**TEMPERATURE, TIME**
**RESULT**

-70 °C, 21 days

OK

-20 °C, 21 days

OK

+4 °C, 21 days

OK

+35 °C, 21 days

OK

+45 °C, 7 days

OK

Stability testing is performed in the product buffer to see whether different temperatures affect the antigen binding, charge or composition of the antibody. Please note that the shelf life given on the first page is based on real time stability testing at 2-8 °C in the product buffer.

**Miscellaneous**

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**References**

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