

## PRODUCT SPECIFICATIONS

Date: 2015-05-15

<b>PRODUCT NAME</b>	:	Anti-h Calprotectin 3403 SPTN-5
<b>PRODUCT SPECIFICITY</b>	:	Human Calprotectin S100A9 subunit
<b>PRODUCT CODE</b>	:	100460
<b>PRODUCT BUFFER</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>	:	Shelf life unspecified, storage at 2-8 °C
<b>ANALYTE DESCRIPTION</b>	:	Calprotectin belongs to the family of S100 proteins and is composed of two subunits S100A8 and S100A9. Increased plasma concentrations are found in response to infections and inflammation. Faecal calprotectin measurement is used for detection of gastrointestinal inflammation or neoplasia and for assessment of inflammatory bowel disease activity and response to treatment.

## PARAMETERS TESTED FROM EACH LOT

<b>PRODUCT APPEARANCE</b>	:	Clear liquid, may precipitate during storage which does not alter the product specifications. Precipitate can be removed by centrifugation or filtering.
<b>PRODUCT CONCENTRATION</b>	:	5.0 mg/ml (+/- 10 %)
<b>PRODUCT ACTIVITY</b>	:	80 – 120 % compared to reference in an IFMA-test
<b>IEF-RANGE</b>	:	7.2 – 8.8
<b>PURITY</b>	:	≥ 95 %

## PARAMETERS DETERMINED ONLY DURING PRODUCT R&amp;D PHASE

<b>CLASS AND SUBCLASS</b>	:	IgG <sub>2a</sub>
<b>ASSOCIATION CONSTANT</b>	:	1.9 x 10 <sup>6</sup> 1/Ms
<b>DISSOCIATION CONSTANT</b>	:	9.1 x 10 <sup>-4</sup> 1/s
<b>AFFINITY CONSTANT</b>	:	KA = 2.0 x 10 <sup>9</sup> 1/M; KD = 4.8 x 10 <sup>-10</sup> M (=0.5 nM)
<b>DETERMINATION METHOD</b>	:	SPR analysis (BioRad ProteOn XPR36)
<b>ANTIGEN</b>	:	Calprotectin recombinant human (Certest Biotec, cat.no. MT25HCP)
<b>CROSS-REACTIVITIES</b>	:	N/D

**EPITOPE** : N/D

**EPITOPE GROUP** : -

Two antibodies binding to the same, or closely located epitopes, belong to the same group and hence cannot be used as a pair in a sandwich assay. Epitope group numbering does not give any detailed information where the epitope is located.

<b>PAIR RECOMMENDATIONS</b>	<b>SOLID</b>	<b>LABEL</b>
	3403	3404, 3406
	3404, 3405, 3406	3403

Please note that pair recommendations are based on results obtained in our laboratory. Equally good results may be obtained using other pairs and therefore these recommendations should be taken only as a directive.

<b>PRODUCT STABILITY</b>	<b>TEMPERATURE, DAYS</b>	<b>RESULT</b>
Please note that the shelf life given on page one is based on real time stability testing at +2-8 °C in the product buffer.	-70 °C, 21 days	OK
	-20 °C, 21 days	OK
	+4 °C, 21 days	OK
	+35 °C, 7 days	OK
	+35 °C, 21 days	Failed
	+45 °C, 3 days	Failed

Stability testing is performed in the product buffer to see whether different temperatures affect the antigen binding, charge or composition of the antibody. The maximum duration of the test is 21 days, except for the +45 °C only 7 days.

**MISCELLANEOUS** : -

**REFERENCES** : -

### Legal disclaimer

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