

## Anti-SARS-CoV-2 N 3510 SPTN-5

### Product overview

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<b>Catalog number</b>	100952
<b>Specificity</b>	Antibody recognizes SARS-CoV-2 nucleocapsid protein
<b>Description</b>	Monoclonal mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components.
<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>	Unspecified, storage at 2–8 °C
<b>Subclass</b>	IgG <sub>1</sub>
<b>Analyte description</b>	Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) is an enveloped, positive stranded RNA virus. SARS-CoV-2 causes respiratory illness called COVID-19.

### Parameters tested on each lot

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<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>	6.1–6.6
<b>Purity</b>	≥ 95 %

### Kinetic parameters

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<b>Association rate constant</b>	$2.8 \times 10^5$ 1/Ms
<b>Dissociation rate constant</b>	$2.2 \times 10^{-5}$ 1/s
<b>Affinity constant</b>	$K_A = 1.3 \times 10^{10}$ 1/M; $K_D = 8.6 \times 10^{-11}$ M (= 0.09 nM)
<b>Determination method</b>	BLI (Octet RED96e)
<b>Determination antigen</b>	Recombinant SARS-CoV-2 N, Medix Biochemica (Cat 710082)



#### Legal disclaimer

**Cross-reactivities** Recognizes SARS-CoV-2 B.1.1.7, B.1.617.2 and B.1.1.529 variants and B.1.1.529 sublineages BA.2, BA.4 and BA.5.  
Does not recognize SARS-CoV N, MERS-CoV N, HCoV OC43 N, HCoV 229E N, HCoV HKU1 N or HCoV NL63 N.

**Epitope** Not Determined (N/D)

**Pair recommendations**

		DETECTION				
		3507	3508	3510	3511	3512
CAPTURE	3507	-	+	+	+	+
	3508	+	-	+	-	+
	3510	+	+	-	+	-
	3511	+	-	+	-	+
	3512	+	+	-	+	-

The pair recommendations are based on antibodies binding to different epitopes. As nucleoprotein is abundant in the virus, all antibodies pair with themselves and each other.

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.

**Platforms tested** FIA

**Antigens tested** Recombinant SARS-CoV-2 N antigen, Medix Biochemica 710081, 710082 and 710083.

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** -

**References** -



**Legal disclaimer**