

## Anti-Thyroxine 6902 SPTN-5

### Product overview

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<b>Catalog number</b>	100801
<b>Specificity</b>	Antibody recognizes human thyroxine
<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>	18 months from manufacturing at 2–8 °C
<b>Subclass</b>	IgG <sub>1</sub>
<b>Analyte description</b>	Thyroxine, or 3,5,3',5'-tetraiodothyronine (often abbreviated as T4) is the major hormone secreted by the thyroid gland. T4 is transported in blood, with 99.95 % of the secreted T4 being protein bound, principally to thyroxine-binding globulin (TBG). T4 is involved in controlling the rate of metabolic processes in the body and influencing physical development. Thyroxine is a prohormone and a reservoir for the active thyroid hormone triiodothyronine (T3) which is about four times more potent.

### 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>	6.7–7.6
<b>Purity</b>	≥ 95 %

### Kinetic parameters

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<b>Association rate constant</b>	1.7 x 10 <sup>6</sup> 1/Ms
<b>Dissociation rate constant</b>	Not Applicable (N/A)
<b>Affinity constant</b>	N/A
<b>Determination method</b>	BLI (Octet RED96e)
<b>Determination antigen</b>	Thyroxine (T4) BSA Conjugate, Medix Biochemica (Cat 581-10)



#### Legal disclaimer

<b>Cross-reactivities</b>	T3 (3,3',5-triiodothyronine)	1.5 % (Sigma, Cat T2752)
	rT3 (3,3',5'-triiodothyronine, reverse T3)	1.5 % (Sigma, Cat T0281)
	3,5-diiodothyronine	< 0.1 % (Sigma, Cat D0629)

**Epitope** N/D

<b>Pair recommendations</b>	CAPTURE ANTIBODY	DETECTION ANTIBODY
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**Platforms tested** FIA

**Antigens tested** Thyroxine (T4) antigen, BSA conjugate, Lee Biosolutions 581-10

<b>Product stability</b>	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**