

## PRODUCT SPECIFICATIONS

Date: 2014-12-19

<b>PRODUCT NAME</b>	:	Anti-Progesterone 1801 SPTNZ-5
<b>PRODUCT SPECIFICITY</b>	:	Antibody recognizes Progesterone
<b>PRODUCT CODE</b>	:	100248
<b>PRODUCT BUFFER</b>	:	50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.05 % Sulfobetaine, 0.095 % NaN <sub>3</sub> as a preservative
<b>SHELF LIFE AND STORAGE</b>	:	24 months at 2-8 °C
<b>ANALYTE DESCRIPTION</b>	:	Progesterone is produced after ovulation in the corpus luteum and during pregnancy in the placenta. It is also produced in the adrenal glands. In women, progesterone levels are relatively low during the preovulatory phase, rise after ovulation, and are elevated during the luteal phase. Progesterone levels tend to be < 2 ng/ml prior to ovulation, and > 5 ng/ml after ovulation. If pregnancy occurs, progesterone levels are initially maintained at luteal levels. With the onset of the luteal-placental shift in progesterone support of the pregnancy, levels start to rise further and may reach 100-200 ng/ml at term. After delivery and during lactation, progesterone levels are very low. Progesterone levels are relatively low in children and postmenopausal women. Adult males have levels similar to those in women during the follicular phase of the menstrual cycle.

### 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>	:	6.8 – 7.5
<b>PURITY</b>	:	≥ 95 %

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

<b>CLASS AND SUBCLASS</b>	:	IgG <sub>1</sub>
<b>ASSOCIATION CONSTANT</b>	:	N/D
<b>DISSOCIATION CONSTANT</b>	:	N/D
<b>AFFINITY CONSTANT</b>	:	N/D
<b>DETERMINATION METHOD</b>	:	N/A
<b>ANTIGEN</b>	:	N/A
<b>CROSS-REACTIVITIES</b>	:	21-hydroxyprogesterone (5%), 17-alpha-hydroxyprogesterone (2%), 11-alpha-hydroxyprogesterone (0,5%), 17-alpha-hydroxypregnenolone (0%), others not tested.

**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.

**PAIR RECOMMENDATIONS** : **SOLID** **LABEL**

N/A

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.

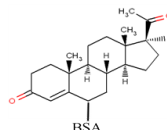
**PRODUCT STABILITY** : **TEMPERATURE, DAYS** **RESULT**

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, 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. The maximum duration of the test is 21 days, except for the +45 °C only 7 days.

**MISCELLANEOUS** : Coupling to carrier protein (BSA) for immunization was done on carbon 6 in the steroid ring structure.



**REFERENCES** : -

### Legal disclaimer

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