

Product specifications

Name	Anti-Estriol (E3) RC10601 SPTN-5
Specificity	Antibody recognizes estriol
Description	Recombinant chimeric antibody containing variable region from mouse IgG and constant region from human IgG ₁ , cultured <i>in vitro</i> under conditions free from animal-derived components.
Product code	140022
Product buffer solution	50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.095 % NaN ₃ as a preservative
Shelf life and storage	Unspecified, storage at 2–8 °C
Subclass	human IgG ₁
Analyte description	Estriol (E3) is one of the three major endogenous estrogens, the others being estradiol (E2) and estrone. During pregnancy, estriol is synthesized with high quantities by the placenta and by the liver of fetus. Estriol measurement from maternal blood or urine can be used to assess the health and well-being of fetus during the second trimester of pregnancy.

Parameters tested on each lot

Product appearance	Liquid, may turn slightly opaque during storage
Product concentration	5.0 mg/ml (+/- 10 %) (A280nm, 1 mg/ml, 1 cm = 1.5)
Immunoreactivity	80–120 % compared to the reference sample in an FIA test
IEF Profile	8.0–9.0
Purity	≥ 95 %

Kinetic parameters

Association rate constant	4.6×10^5 1/Ms
Dissociation rate constant	1.2×10^{-5} 1/s
Affinity constant	$K_A = 4.0 \times 10^{10}$ 1/M; $K_D = 2.4 \times 10^{-11}$ M (= 0.02 nM)
Determination method	BLI (Octet RED96e)
Determination antigen	Estriol (E3)-BSA Antigen, EastCoast Bio P81-92-31A

Cross-reactivities	Does not recognize Estradiol (E2)														
Epitope	N/D														
Pair recommendations	Pairs with Estriol (E3)-BSA Antigen, EastCoast Bio P81-92-31A and Estriol (E3)-3-HRP Antigen, EastCoast Bio P91-92-31H														
Platforms tested	FIA														
Antigens tested	Please see pair recommendations above.														
Product stability	<table><thead><tr><th>TEMPERATURE, TIME</th><th>RESULT</th></tr></thead><tbody><tr><td>-70 °C, 21 days</td><td>OK</td></tr><tr><td>-20 °C, 21 days</td><td>OK</td></tr><tr><td>+4 °C, 21 days</td><td>OK</td></tr><tr><td>+35 °C, 21 days</td><td>OK</td></tr><tr><td>+45 °C, 3 days</td><td>OK</td></tr><tr><td>+45 °C, 7 days</td><td>Minor charge alterations</td></tr></tbody></table> <p>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.</p>	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, 3 days	OK	+45 °C, 7 days	Minor charge alterations
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Miscellaneous	This product is a recombinant version of the previously available Estriol (E3) Antibody P-01-92-35M-P.														
References	-														

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