



PRODUCT SPECIFICATIONS

Date: 2012-04-26

PRODUCT NAME	:	Anti-h Alpha Subunit 5503 SP-1
PRODUCT SPECIFICITY	:	Antibody recognize the alpha chains of human CG, LH and TSH
PRODUCT CODE	:	100037
PRODUCT BUFFER	:	0.9 % NaCl, 0.1 % NaN $_3$ as a preservative
SHELF LIFE AND STORAGE	:	6 months from manufacturing at 2-8 °C
ANALYTE DESCRIPTION	:	The alpha subunits of LH, FSH, TSH, and hCG are identical, and contain 92 amino acids in human but 96 amino acids in almost all other vertebrate species.

PARAMETERS TESTED FROM EACH LOT

PRODUCT APPEARANCE	:	Clear liquid
PRODUCT CONCENTRATION	:	1.00 mg/ml (+/- 10 %)
PRODUCT ACTIVITY	:	80-120 % compared to reference in an IFMA-test
IEF-RANGE	:	6.7 - 8.1
PURITY	:	≥ 95 %

PARAMETERS DETERMINED ONLY DURING PRODUCT R&D PHASE

CLASS AND SUBCLASS	:	lgG1		
ASSOCIATION CONSTANT	:	1.7 x 10 ⁶		
DISSOCIATION CONSTANT	:	5.3 x 10 ⁻⁴		
AFFINITY CONSTANT	:	KA = 3.2 x 10 ⁹ 1/M; KD = 3.2 x 10 ⁻¹⁰ M (= 0.32 nM)		
DETERMINATION METHOD	:	SPR analysis (ProteOn XPR36)		
ANTIGEN	:	hCG (Scripps CO714 lot.2430801)		
CROSS-REACTIVITIES	:	LH 100 % (Boehringer Cat No 253065 Lot 10774821-25/Nov 87) hCG α 473 % (Boehringer Cat No 280364 Lot 1064307/Mar 85) hCG β 3 % (Boehringer Cat No 280399 Lot 10335521-21/Aug 86) LH 65 % (Scripps Laboratories Cat No L0814 Lot 125711)		

TSH 17 % (Boehringer Cat No 252948 Lot 10508921-15/Aug 87)

Oy Medix Biochemica Ab Asematie 13 FI-02700 Kauniainen Finland Telephone +358-9-547 680 Fax +358-9-505 3441 Email

medix@medixbiochemica.com Public website www.medixbiochemica.com Extranet

www.medixbiochemica.com/extra Request your personal login ID by emailing to medix@medixbiochemica.com



FERTILITY

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		
		hCG beta specific clones	5503		
		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		
		-70 °C, 21 days	N/D		
		-20 °C, 21 days	N/D		
Please note that the shelf life given on		+4 °C, 21 days	N/D		
page one is based on real time stability		+25 °C, 21 days	N/D		
testing at +2-8 °C in the product buffer.		+35 °C, 7 days	N/D		
		+35 °C, 21 days	N/D		
		+45 °C, 3 days	N/D		
		+45 °C , 7 days	N/D		
		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 $^\circ$ C only 7 days.			
		pH, 14 DAYS, +4°C	RESULT		
		5.0	N/D		
		6.0	N/D		
		7.0	N/D		
		8.0	N/D		
		Stability testing is performed to see whether pH affects the antigen binding, charge or composition of the antibody during 14 days at +4 $^{\circ}$ C.			
MISCELLANEOUS	:	-			
REFERENCES	:	-			

Legal disclaimer

MedixMAB monoclonal antibodies meet their specifications if transported, stored and used according to the instructions for use. See also separate *Notes on use and storage of monoclonal antibodies*. If not otherwise agreed in writing all products are sold under *General Delivery Terms*. Other terms may apply if MedixMAB monoclonal antibodies are purchased from an official distributor of Medix Biochemica products. MedixMAB is a registered trademark of Medix Biochemica and may not be used or reproduced without Medix Biochemica's written permission. Further information on products and methods is available from medixMAB website and extranet.

Oy Medix Biochemica Ab Asematie 13 FI-02700 Kauniainen Finland **Telephone** +358-9-547 680 **Fax** +358-9-505 3441

Email medix@medixbiochemica.com Public website www.medixbiochemica.com Extranet www.medixbiochemica.com/extra Request your personal login ID by emailing to medix@medixbiochemica.com