

PRODUCT SPECIFICATIONS

Date: 2011-08-12

PRODUCT NAME	:	Anti-h GH 5801 SP-1
PRODUCT SPECIFICITY	:	Antibody recognizes human Growth Hormone
PRODUCT CODE	:	100041
PRODUCT BUFFER	:	0.9 % NaCl, 0.1 % NaN ₃ as a preservative
SHELF LIFE AND STORAGE	:	36 months from manufacturing at 2-8 °C
ANALYTE DESCRIPTION	:	Growth hormone (GH) is a single-chain polypeptide hormone that is synthesized, stored, and secreted by the anterior pituitary gland. It stimulates growth and cell reproduction and regeneration in humans and other animals. Growth hormone is used clinically to treat children's growth disorders and adult growth hormone deficiency.

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	:	5.7 - 6.8
PURITY	:	≥ 95 %

PARAMETERS DETERMINED ONLY DURING PRODUCT R&D PHASE

CLASS AND SUBCLASS	:	IgG ₁
ASSOCIATION CONSTANT	:	N/D
DISSOCIATION CONSTANT	:	N/D
AFFINITY CONSTANT	:	2 x 10 ¹⁰ l/mol
DETERMINATION METHOD	:	Radioimmunoassay (RIA)
ANTIGEN	:	GH, Boehringer (Cat No 252964 Lot 1222303 / Jul 84)
CROSS-REACTIVITIES	:	PRL 1.0 % (International Laboratory Service Lot 11385) PL 0.2 % (UCB-Bioproducs Cat No i020 Lot 007)

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
5802	5801

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
+4 °C, 21 days	N/D
+25 °C, 21 days	N/D
+35 °C, 7 days	N/D
+35 °C, 21 days	N/D
+45 °C, 3 days	N/D
+45 °C, 7 days	N/D

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.

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.

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 °C.

MISCELLANEOUS : -

REFERENCES : Erb, T., Karolyi, G., Pampalone, A., Eberle, A.N., Baumann, J.B., Bürgisser, E., and Girard, J., (1988) Human growth hormone in urine: development of an ultrasensitive radiometric assay. *Experientia*, 44:155-157

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