

## PRODUCT SPECIFICATIONS

<b>Name</b>	Anti-h Hemoglobin 7202 SPR-5
<b>Specificity</b>	Antibody recognizes human hemoglobin (A <sub>0</sub> and A <sub>1</sub> equally well, A <sub>2</sub> with lower affinity, and A <sub>3</sub> with very low affinity)
<b>Description</b>	Monoclonal mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components
<b>Product code</b>	100079
<b>Product buffer solution</b>	37 mM citrate, 125 mM phosphate, pH 6.0, 0.095 % NaN <sub>3</sub> as a preservative
<b>Shelf life and storage</b>	36 months from manufacturing at 2-8 °C
<b>Analyte description</b>	Hemoglobin is the iron-containing metalloprotein in red blood cells. It transports oxygen from the lungs to the body tissues. Deviations from normal values usually indicate abnormalities, such as anemia.

## PARAMETERS TESTED ON EACH LOT

<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>	6.2 - 6.7
<b>Purity</b>	≥ 95 %

## PARAMETERS DETERMINED DURING PRODUCT DEVELOPMENT

<b>Subclass</b>	IgG <sub>1</sub>
<b>Association rate constant</b>	Not Determined (N/D)
<b>Dissociation rate constant</b>	N/D
<b>Affinity constant</b>	1 x 10 <sup>10</sup> l/mol
<b>Determination method</b>	Radioimmunoassay (RIA)
<b>Determination antigen</b>	Hemoglobin, Sigma (Cat H-7379, Lot 68F-9307)

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**Cross-reactivities**

Albumin < 0.01 % (ICN, Cat 82-301, Lot 37)  
 Haptoglobin < 0.4 % (Sigma, Cat H-1511, Lot 48F9313)  
 Myoglobin < 0.03 % (Chemicon, Cat AG35P, Lot 021287M)  
 Transferrin < 0.01 % (Sigma, Cat T-3400, Lot 62H9330)

Clone 7202 does not cross-react with bovine, sheep, horse or pig hemoglobin.

**Epitope**

N/D

**Pair recommendations**

**CAPTURE ANTIBODY**

**DETECTION ANTIBODY**

7202

7204

7204

7202

Please note that pair recommendations are based on results obtained by our laboratory. Equally good results may be obtained using other pairs and therefore these recommendations are only indicative.

**Product stability**

**TEMPERATURE, TIME**

**RESULT**

-70 °C, 21 days

N/D

-20 °C, 21 days

OK

+4 °C, 21 days

OK

+30 °C, 21days

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**

The antibody recognizes also glycated hemoglobin HbA1c.

**References**

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