

## Product specifications

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|                         |   |
|-------------------------|---|
| Name                    | Anti-h Hemoglobin 7204 SP-5   |
| Specificity             | Antibody recognizes human hemoglobin (A <sub>0</sub> , A <sub>1</sub> and A <sub>2</sub> equally well, A <sub>2</sub> with low affinity)  |
| Description             | Monoclonal mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components.   |
| Product code            | 100080  |
| Product buffer solution | 0.9 % NaCl, 0.095 % NaN <sub>3</sub> as a preservative  |
| Shelf life and storage  | 36 months from manufacturing at 2–8 °C  |
| Subclass                | IgG <sub>1</sub>  |
| Analyte description     | 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

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|                       |  |
|-----------------------|--|
| Product appearance    | Liquid, may turn slightly opaque during storage          |
| Product concentration | 5.0 mg/ml (+/- 10 %)                                     |
| Immunoreactivity      | 80–120 % compared to the reference sample in an FIA test |
| IEF Profile           | 6.1–6.8  |
| Purity                | ≥ 95 %   |

## Kinetic parameters

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|                            |  |
|----------------------------|--|
| Association rate constant  | Not Determined (N/D)                         |
| Dissociation rate constant | N/D  |
| Affinity constant          | K <sub>A</sub> = 6 x 10 <sup>8</sup> 1/M     |
| Determination method       | Radioimmunoassay (RIA)                       |
| Determination antigen      | Hemoglobin, Sigma (Cat H-7379, Lot 68F-9307) |

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|                    |                   |  |
|--------------------|-------------------|--|
| Cross-reactivities | Human Albumin     | < 0.04 % (ICN, Cat 82-301, Lot 37)       |
|                    | Human Haptoglobin | < 0.4 % (Sigma, Cat H-1511, Lot 48F9313) |
|                    | Human Myoglobin   | < 1 % (Chemicon, Cat AG35P, Lot 021287M) |
|                    | Human Transferrin | < 0.02 % (Sigma Cat T-3400, Lot 62H9330) |
|                    | Bovine Hemoglobin | 5 %                                      |

Does not recognize sheep, horse or pig hemoglobin.

Epitope N/D

Pair recommendations

|         |      | DETECTION |      |
|---------|------|-----------|------|
|         |      | 7202      | 7204 |
| CAPTURE | 7202 | -         | +    |
|         | 7204 | +         | -    |

Following pairs are especially recommended for the below mentioned assays:  
LF: 7202 (membrane) – 7204 (particles)

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.

Platforms tested FIA, LF

Antigens tested Native hemoglobin antigen Lee Biosolutions 338-10, and native glycosylated hemoglobin HbA1c Lee Biosolutions 325-09 and 325-10

| Product stability | TEMPERATURE, TIME | RESULT |
|-------------------|-------------------|--------|
|                   | -70 °C, 21 days   | N/D    |
|                   | -20 °C, 21 days   | OK     |
|                   | +4 °C, 21 days    | OK     |
|                   | +30 °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. 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 -

References -

