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|-----------------------------------|--|-------------------|-----------|----------|----------|
| Description | Precipitating polyclonal rabbit antiserum to sheep IgG, heavy and light chains | | | | |
| Product code | RASh/IgG(H+L) | | | | |
| Biological origin | Rabbit | | | | |
| Physical form | Delipidated, heat inactivated lyophilized stable whole serum | | | | |
| Preservative | No preservative added, as it may interfere with the antibody activity. No foreign protein added. | | | | |
| Immunogen | Purified normal IgG isolated from pooled sheep serum. Freund's complete adjuvant is used in the first step of the immunization procedure. | | | | |
| Adsorption | No adsorption required. | | | | |
| Identity & Specificity | The reactivity of the antiserum is directed to the Fc and Fab subunits of the IgG molecule. It includes a certain degree of reactivity with other immunoglobulins via the common Fab portion. It does not react with any non-Ig protein in sheep serum, as tested by immunoelectrophoresis and double radial immunodiffusion. | | | | |
| Cross-reactivity | Inter-species cross-reactivity is a normal feature of antibodies to immunoglobulins, since Ig of different species frequently share antigenic determinants. Cross-reactivity of this antiserum has been tested in double radial immunodiffusion with the following results: | | | | |
| | bovine ++ | dog ± | hamster ± | mouse + | rat + |
| | cat ± | goat ++ | horse + | monkey + | swine + |
| | chicken - | guinea pig ± | human + | pigeon - | turkey - |
| Protein concentration | Total protein and IgG concentration in the antiserum are comparable to those of pooled rabbit serum. No foreign proteins added. | | | | |
| Antibody titre | Precipitin titre not less than 1:64 when tested against normal sheep serum in agar block titration. | | | | |
| Intended use | In immunoelectrophoresis and double radial immunodiffusion to identify the presence of IgG; as secondary antibody to precipitate the immunoglobulin in normal sheep serum; to prepare an immunoabsorbent for the production of Ig-free sheep serum, plasma or non-Ig preparations. | | | | |
| Directions for use | In immunoelectrophoresis use 2 µl or equivalent against 120 µl antiserum. In double radial immunodiffusion (Ouchterlony) use a rosette arrangement with 10 µl antiserum in a 3 mm diameter centre well and 2 µl serum samples (neat and diluted) in 2 mm diameter peripheral wells. | | | | |
| Handling | The lyophilized antiserum is shipped at ambient temperature and may be stored at +4°C; prolonged storage at or below -20°C. It is reconstituted by adding 1 ml sterile distilled water. Working dilutions are prepared by adding sterile phosphate buffered saline (PBS, pH 7.2). Repeated thawing and freezing should be avoided. Working dilutions should be stored at +4°C, not refrozen, and preferably used the same day. If a slight precipitation occurs upon storage, this should be removed by centrifugation. It will not affect the performance of the product. | | | | |
| Packing | Vial with 1 ml lyophilized antiserum. | | | | |
| Storage / shelf life | Lyophilized at +4°C | at least 10 years | | | |
| | reconstituted at or below -20°C | 3-5 years | | | |
| | reconstituted at +4°C | 7 days | | | |
| Caution | This antiserum should be handled by qualified persons only and appropriate precautions should be taken in its handling and disposal, and of all associated materials. For <i>in vitro</i> laboratory research purposes only. | | | | |

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