Description	**Precipitating polyclonal swine antiserum to sheep IgM, Fc specific**
Product code	SwASh/IgM(Fc)
Biological origin	Swine
Physical form	Delipidated, heat inactivated, lyophilized, stable whole antiserum
Preservative	No preservative added
Immunogen	Highly purified normal IgM isolated from pooled sheep serum. Freund's complete adjuvant is used in the first step of the immunization procedure.
Adsorption	Immunoaffinity adsorbed using insolubilized antigens as required, to eliminate antibodies cross reacting with other components of the immunoglobulin system or reacting with other serum proteins. The use of insolubilized adsorption antigens prevents the presence of excess adsorbent protein or immune complexes in the antiserum.
Identity & Specificity	The reactivity of the antiserum is restricted to the Fc part of the IgM molecule. In immuno-electrophoresis and radial immunodiffusion, using various antiserum concentrations against normal sheep serum a single precipitin line is obtained which shows a reaction of identity with the precipitin line obtained with purified IgM. No precipitation reaction is obtained with purified IgG, IgA, and IgG/Fab fragments.
Cross-reactivity	The antiserum does not cross-react with any other component of the sheep Ig system. 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 not been tested in detail, however in double radial immunodiffusion a strong reaction with goat has been observed.
Protein concentration	Total protein and IgG concentrations in the antiserum are comparable to those of pooled normal swine serum. No foreign proteins added.
Antibody titre	Precipitin titre 1:32 when tested against pooled normal sheep serum in agar-block immuno-diffusion titration.
Intended use	In precipitating techniques as immunoelectrophoresis and radial immunodiffusion to identify the presence of IgM in sheep serum and other body fluids or to determine its concentration. To prepare an immunoadsorbent for the purification of sheep IgM from serum or plasma.
Directions for use	In immunoelectrophoresis use 2 µl serum, plasma 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 serially diluted) in 2 mm diameter peripheral wells. In single radial immunodiffusion and electroimmunodiffusion use 0.5 to 1.0 percent antiserum in the agar gel.
Handling	The lyophilized antiserum is shipped at ambient temperature and may be stored at +4°C; prolonged storage at or below -20°C. Reconstitute the lyophilized antiserum by adding 1 ml sterile distilled water. Dilutions may be prepared by adding phosphate buffered saline (PBS, pH 7.2). Repeated thawing and freezing should be avoided. If a slight precipitation occurs upon storage, this should be removed by centrifugation. It will not affect the performance of the antiserum. Diluted antiserum should be stored at +4°C, not refrozen, and preferably used the same day.
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 *in vitro* research purposes only.

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