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| **General information** | NORDIC IMMUNOLOGY offers over 1700 basic immunological reagents including antisera, antibodies, immunoconjugates, purified proteins, controls and calibrators. In over 30 years, NORDIC has established working reference standards which are periodically reviewed in the light of current progress.<br>**NORDENZYME™** is the name of a group of polyclonal immunologic reagents to enzymes. Two different types of rabbit or sheep anti-enzyme products are offered: the isolated IgG fractions (7S) of the specific antisera and the isolated antibodies (PAb) to the enzymes. Products against some 180 enzymes are available either as 7S or PAb or in both forms. The 7S fractions are also available in biotinylated form.<br>The **NORDENZYME™** products have been obtained by immunization with highly purified enzymes. |
| **Description** | **Biotin-conjugated IgG fraction of polyclonal rabbit antiserum to malic dehydrogenase from porcine heart** |
| **Product code** | NE102/Bio |
| **Biological origin** | Rabbit |
| **Physical form** | Biotin-coupled hyperimmune rabbit IgG lyophilised from a solution in phosphate buffered saline (PBS, pH 7.2). |
| **Preservative** | No preservative added, as it may interfere with the antibody activity. No foreign protein added. |
| **Immunogen** | Malic dehydrogenase isolated and purified from porcine heart. Freund's complete adjuvant is used in the first step of the immunization procedure. |
| **Purification** | The IgG (7S) fraction is prepared from the antiserum by ammonium sulphate precipitation and ion exchange chromatography. |
| **Identity & Specificity** | The reagents were evaluated for potency, purity and specificity using most or all of the following techniques: immunoelectrophoresis, cross-immunoelectrophoresis, single radial immunodiffusion (Ouchterlony), block titration, ELISA, immunoblotting and enzyme inhibition. |
| **Cross-reactivity** | Cross-reactivities against enzymes of other sources may occur but have not been determined. |
| **Physicochemical characteristics** | IgG protein concentration 10 mg/ml. Biotin/ IgG protein molar ratio (B/P) approximately 4.5. No foreign proteins added. |
| **Marker** | N-Hydroxysuccinimidobiotin. |
| **Conjugation procedure** | A proprietary technique for the binding to biotin is used, followed by several purification steps. After each step activity and specificity are tested in a variety of techniques. The conjugate is lyophilised to assure stability and long shelf life. |
| **Intended use** | This product is intended for use in precipitating and non-precipitating antibody-binding assays (such as e.g., ELISA and Western blotting and immunofluorescence or histochemical techniques). |
| **Directions for use** | Working dilutions in non-precipitating antibody-binding techniques may vary widely, but may be between 1/1,000 and 1/40,000. |
| **Handling** | The lyophilised conjugate is shipped at ambient temperature and may be stored at +4℃; prolonged storage at or below -20℃. It is reconsti tuted by adding 1.0 ml sterile distilled water, spun down to remove insoluble particles, divided into small aliquots, frozen and stored at or below -20℃. Prior to use, an aliquot is thawed slowly at a mbient temperature, spun down again and used to prepare working dilutions by adding sterile phosphate buffered saline (PBS, pH 7.2). Repeated thawing and freezing should be avoided. Working dilutions should be stored at +4℃, not refrozen, and preferably used t he 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 immunoconjugate, lyophilised from phosphate buffered saline. |
| **Storage / shelf life** | Lyophilised at +4℃ — at least 10 years<br>reconstituted at or below -20℃ — 3-5 years<br>reconstituted at +4℃ — 7 days |
| **Caution** | This product 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* laboratory research purposes only. |

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