

Product Information

Avidin-Peroxidase

A7419

Product Description

Affinity purified hen egg white avidin (activity 10-15 units/mg protein) is conjugated to purified horseradish peroxidase (HRP).

Reagent

Supplied as a liquid in 0.01 M phosphate buffered saline, pH 7.4, containing 0.05% MIT as a preservative.

Avidin concentration (P): 2-3 mg/mL

P/E Molar Ratio: 0.6-1.5

Precautions and Disclaimer

For R&D use only. Not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

For continuous use, store at 2-8 °C for up to one month. For extended storage, the solution may be frozen in working aliquots. Repeated freezing and thawing, or storage in "frost-free" freezers, is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use.

Product Profile

Titer

Minimum 1:100,000 (ELISA)

Titer is defined as the dilution of conjugate sufficient to give a change in absorbance of 1.0 at 450 nm after 30 minutes of substrate conversion at 25 °C.¹

Microtiter plates are coated with purified mouse IgG at a concentration of 1 µg/mL in phosphate buffered saline, pH 7.4. Anti-Mouse IgG (whole molecule) -Biotin (Cat. No. B8520) is used as the primary antibody.

Substrate: 0.04% *o*-Phenylenediamine Dihydrochloride** (OPD, Cat. No. P8787) and 0.012% H₂O₂** in phosphate-citrate buffer, pH 5.0.

**Add immediately before use.

Immunoblotting

A working dilution of 1:400,000-1:800,000 is determined using an immunoblot assay detecting β-Actin in total cell extract of HeLa cells (5-10 µg/well)

Note: Working dilutions should be determined by titration assay. Due to differences in assay systems, this titer may not reflect the user's actual working dilution.

References

1. Voller, A., et al., Bull. World Health Organ. **53**: 55 (1976).

Notice

We provide information and advice to our customers on application technologies and regulatory matters to the best of our knowledge and ability, but without obligation or liability. Existing laws and regulations are to be observed in all cases by our customers. This also applies in respect to any rights of third parties. Our information and advice do not relieve our customers of their own responsibility for checking the suitability of our products for the envisaged purpose.

The information in this document is subject to change without notice and should not be construed as a commitment by the manufacturing or selling entity, or an affiliate. We assume no responsibility for any errors that may appear in this document.

Technical Assistance

Visit the tech service page at SigmaAldrich.com/techservice.

Standard Warranty

The applicable warranty for the products listed in this publication may be found at SigmaAldrich.com/terms.

Contact Information

For the location of the office nearest you, go to SigmaAldrich.com/offices.

The life science business of Merck operates as MilliporeSigma in the U.S. and Canada.

Merck and Sigma-Aldrich are trademarks of Merck KGaA, Darmstadt, Germany or its affiliates. All other trademarks are the property of their respective owners. Detailed information on trademarks is available via publicly accessible resources.

© 2021 Merck KGaA, Darmstadt, Germany and/or its affiliates. All Rights Reserved.

A7419dat Rev 07/21

