Ver.260101

DAB Colour Development Kit (20×)

DA1010

FOR RESEARCH USE ONLY, DO NOT USE IT IN CLINICAL DIAGNOSIS

Introduction

DAB is the chromogenic substrate of peroxidase (POD), DAB chromogenic solution is mainly used for immune peroxidase method, suitable for horseradish peroxidase HRP label immunoimprinting or immunohistochemical reaction. Peroxidase catalyzes the substrate reaction, producing brown precipitate at the reaction site, and immunoimprinting can directly show bands on the membrane; The colour development time of the immunohistochemical specimen is generally 5-20minutes at room temperature, and then the colour development is observed under the microscope. After the colour development is sufficient, the specimen should be dehydrated and sealed in time. The end product can be directly observed under a light microscope, or it can be treated with O_SO_4 to increase the electron density of the reaction product for electron microscope observation.

Kit Components

Reagent	Volume	Storage
Reagent A	10 x 3mL	-20℃, avoid light
Reagent B	10 x 3mL	-20℃, avoid light

Storage: Storage at -20℃ away from light, effective for one year, to avoid repeated freezing and thawing

Protocol

1. For tissue sections or protein-imprinted membranes, after incubation with horseradishperoxidase (HRP) labeled antibodies or other forms of probes, wash 3-5 times with appropriate washing solution for 3-5minutes each time.
2. Take 900μL 1×PBS and add 50μL solution A and 50μL solution B to mix evenly, that is, DAB working solution. If a larger volume of working liquid is needed, it can be scaled up. This solution must be used on the spot, stored away from light after preparation, use within 1hour, after expiration, please discard the remaining liquid.
3. Add an appropriate amount of DAB working solution to the tissue section or imprinting film to ensure that the sample can be fully covered.
4. Incubate at room temperature and away from light for 3-10minutes or longer, avoiding light until the colour is the desired shade.
5. Remove the DAB dyeing working liquid and wash it with distilled water 2-3 times to terminate the colour developing reaction.
6. For tissue sections or cell samples, after the colour development reaction is terminated, it can be re-dyed with other dyes. For membranes, after the colour development reaction has stopped, they can be dried at room temperature and stored away from light.

Note

1. DAB solution should be kept sealed at low temperature. If there is crystallization, it should been sured that the crystallization is completely dissolved before use.
2. The colour developing working liquid should be used on the spot. The freshly prepared working liquid should be colourless or light brown. If the colour is too dark, do not use it.

3. Configure 1×PBS in the colour developing working liquid, do not replace it with double distilled water.
4. The colour developing time is strictly controlled and adjusted according to the situation to avoid excessive colour development. The solid phase film will fade after several hours of colour development and cannot exist permanently.
5. DAB is a suspected carcinogen. Please take necessary precautions. Wear gloves during operation, avoid contact with skin as much as possible, and rinse thoroughly after use. It is best to soak experimental supplies in lotion for 24h before use.