

Transwell Staining Kit

Cat. No.: T1506001 | Pack size: 20T | Storage: 2-8°C

Overview

The Transwell Staining Kit is a specialized staining tool designed for cells cultured in Transwell chambers (e.g., after migration or invasion experiments). It features easy operation and precise staining, and is mainly used for observing cell morphology and counting cells. The staining solution can quickly penetrate the Transwell membrane without damaging cell morphology. It also has good stain retention (not easy to fade) and provides stable staining results. With a low operational threshold, the kit requires no complex pretreatment. Its procedure typically consists of three steps: "fixation → staining → washing". It takes little time and is suitable for batch sample processing. This kit can be used in tumor cell migration/invasion experiments, endothelial cell penetration experiments, etc., and is compatible with common cell types (such as tumor cells, stem cells, and epithelial cells).

Kit Contents & Storage

T1506001	Components	20T	Storage
T1506001A	Cell Fixative	50 mL	2-8°C
T1506001B	Staining Solution	20 mL	2-8°C. Store in the dark.
T1506001C	Toning Solution A	20 mL	2-8°C
T1506001D	Toning Solution B	5 mL	2-8°C
T1506001E	Mounting Medium	2 mL	2-8°C
T1506001F	PBS (powder)	1L	2-8°C

Note: The solution volume corresponding to 20T in the table is quantified based on the 6-well plate.

Self-Prepared Consumables:

If observing with an upright microscope, slides, coverslips, and pipette tips need to be prepared.

If observing with an inverted microscope, only pipette tips need to be prepared.

Staining Procedures (For Reference Only):

- a. Take 1 L of double-distilled water, dissolve all PBS in it, and set aside for later use. The prepared solution can be stored at 4°C.
- b. Take out the prepared cells, aspirate the culture medium, and rinse the cells with PBS 3 times.
- c. Wipe off the cells on the upper chamber surface with a cotton swab, add 2 mL of Cell Fixative (Solution A, numbered) to the well plate, place the Transwell into the well plate, and fix for 15 minutes.

Note: The Transwell must be fully immersed in the liquid.

- d. Rinse with PBS 3 times, 5 minutes each time.
- e. Add 1 mL of Staining Solution (Reagent B, numbered) to the well plate, ensure the Transwell is immersed in the liquid, and stain for 10 minutes.
- f. Discard the staining solution, add 1 mL of Solution C, then add one drop of Solution D, mix quickly, and observe under a microscope.

Notes: Solution D must not be dropped directly onto the stained cells. Adjust the amount of Solution D (toning solution) added according to the staining color of your cells. If the color is too dark, add another drop of Solution D until the color meets your satisfaction.

- g. After achieving a satisfactory result, discard all liquids and rinse once with PBS.
- h. Observation with an upright microscope: Use a blade to remove the membrane, place it on a glass slide, add 1–2 drops of Mounting Medium (Solution E, numbered), cover with a coverslip, and observe under the microscope.
- i. Observation with an inverted microscope: Place the Transwell directly in the well plate. This method does not allow long-term storage, so take photos immediately after completing the experiment.

Precautions:

1. When using this reagent for the first time, it is recommended to take 1-2 samples for a preliminary experiment to determine an optimal staining time.
2. If the desired color is not achieved when using the toning solution, you can repeat the staining and toning processes until your experimental requirements are met.
3. For your safety and health, please wear a lab coat, disposable gloves, and a face mask during operation.

Cell Staining Results:

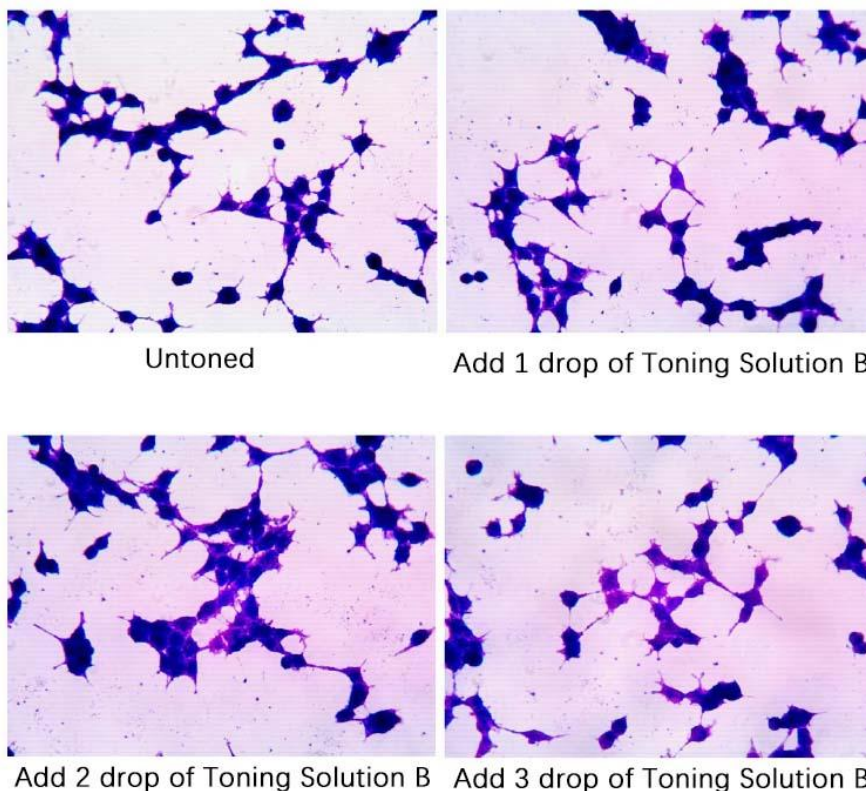


Figure 1. Cell Staining Results.

Specifications and Storage & Shipping

Property	Details
Grade	BioReagent; for Cell culture; for Microscopy
Storage	Store at 2-8°C, Protected from light
Shipped In	Wet ice
Stability And Storage	Store at 2-8°C long term (12 months). Store in the dark.

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