

DISCOVERY CC1

Research Use Only

REF 950-500

06414575001

INTENDED USE

For Research Use Only. Not for use in diagnostic procedures.

Ventana Medical Systems' (Ventana) DISCOVERY CC1 (DISCOVERY Cell Conditioning Solution) is a pre-diluted solution used as a pretreatment step in the processing of tissue samples for immunohistochemistry (IHC) reactions carried out on Ventana DISCOVERY XT and DISCOVERY ULTRA automated slide stainers.

SUMMARY AND EXPLANATION

DISCOVERY CC1 is a Tris based buffer, which must not be diluted. DISCOVERY CC1 is poured into the appropriate position (CC1 bottle) of the automated fluidics module on the DISCOVERY automated slide stainers. The instrument applies DISCOVERY CC1 automatically as required by the procedure being run on the automated slide staining system.

PRINCIPLE OF THE PROCEDURE

Fixation of tissue by formalin results in the formation of covalent bonds between the aldehyde and amino groups present in the tissue. The formation of these bonds denatures protein and can result in the loss of antigenicity. In addition, the formaldehyde can form methylene bridges cross linking tissue proteins thus reducing the penetration of the tissue to large molecules such as antibodies.

DISCOVERY CC1 is a Tris based buffer with a slightly basic pH, which at elevated temperatures is capable of hydrolyzing the covalent bonds formed by formalin in tissue. Removing these bonds allows renaturation of protein molecules and increases antibody accessibility. Often these changes result in significant gains in antibody binding and improved signal to noise ratios. The automated slide stainer automatically heats the slide to the appropriate temperature and time as selected by the user.

REAGENT PROVIDED

One 2 L bottle of DISCOVERY CC1 contains a Tris based buffer and a preservative.

Reconstitution, Mixing, Dilution, Titration

This reagent is ready to use directly from the bottle and must not be diluted.

Materials and Reagents Needed But Not Provided

Reagents, such as Ventana primary antibodies, probes, detection kits, and ancillary components, are not provided.

STORAGE AND HANDLING

Store at room temperature (15-30°C). Do not freeze. The user must validate any storage conditions other than those specified in the package insert.

This reagent is expiration dated. When properly stored, the reagent is stable to the date indicated on the label. Do not use reagent beyond the expiration date for the prescribed storage method.

SPECIMEN PREPARATION

For tissue specimens, routinely processed, formalin-fixed, paraffin-embedded tissues are suitable for use with this reagent when used with Ventana detection kits and automated slide stainer (see Materials and Reagents Needed But Not Provided section). The recommended tissue fixative is 10% neutral buffered formalin. Variable results may occur as a result of prolonged fixation or special processes such as decalcification of bone marrow preparations.

Each section should be cut the appropriate thickness and placed on a positively charged glass slide. Slides containing the tissue section may be baked for at least 2 hours (but not longer than 24 hours) in a 70°C ± 5°C oven.

WARNINGS AND PRECAUTIONS

1. Take reasonable precautions when handling reagents. Avoid contact of reagents with eyes, skin, and mucous membranes. If reagents come in contact with sensitive areas, wash with large amounts of water. Use protective clothing and gloves.
2. Materials of human or animal origin should be considered potentially biohazardous and handled with proper caution. Consult local and/or state authorities for the recommended method of disposal.
3. Avoid microbial contamination of reagents as it may cause incorrect results.
4. This reagent may cause skin and eye irritation. It may also be irritating to mucous membranes and upper respiratory tract. An allergic respiratory or skin reaction may be possible in sensitized individuals.
5. DISCOVERY CC1 is not flammable.
6. For supplementary safety information, refer to the product Safety Data Sheet and the Symbol and Risk Phrase Guide located at dialog.roche.com.

Precautions

1. Handle all samples as if potentially infectious, using safe laboratory procedures. As the sensitivity and titer of potential pathogens in the sample material can vary, the operator must optimize pathogen inactivation and follow the appropriate measures according to local safety regulations.
2. Do not eat, drink, or smoke in the laboratory area.
3. Do not pipette by mouth.
4. Wear protective disposable gloves, laboratory coats, and eye protection, when handling samples and kit reagents.
5. Wash hands thoroughly after handling samples and reagents.

Waste Handling

1. Discard unused reagents and waste in accordance with country, federal, state, and local regulations.
2. Safety Data Sheets (SDS) are available online on dialog.roche.com, or upon request from the local Roche office.

INSTRUCTIONS FOR USE

DISCOVERY CC1 is poured into the appropriate position (CC1 bottle) of the automated fluidics module on the Ventana automated slide stainers. DISCOVERY CC1 is applied to tissue specimens following the removal of paraffin and prior to the application of other reagents used in the detection of the target analyte as required by the protocol being run. The instrument applies DISCOVERY CC1 automatically. The user is given the option of selecting mild (30 minutes), standard (60 minutes), or extended (90 minutes) cell conditioning.

STEP BY STEP PROCEDURE

Ventana reagents have been developed for use on a Ventana automated slide stainers in combination with Ventana detection kits and accessories. Recommended staining protocols for the automated slide stainers are described in the package insert of the primary antibody of interest. The parameters for the automated procedures can be displayed, printed and edited according to the procedure in the Operator's Manual.

DISCOVERY XT Automated Slide Stainer or DISCOVERY ULTRA Automated Slide Stainer

1. Apply slide bar code label, which corresponds to the protocol to be performed.
2. Load the primary antibody, appropriate detection kit and required accessory reagents onto the reagent tray and place them on the automated slide stainer.
3. Check bulk fluids and waste.
4. Load the slides onto the automated slide stainer.
5. Start the staining run.
6. At the completion of the run, remove the slides from the automated slide stainer.
7. For DABMap and ChromoMap DAB detection kits, wash in a mild dishwashing detergent or alcohol to remove the coverslip solution.
8. Dehydrate, clear, and coverslip with permanent mounting media.

LIMITATIONS

1. DISCOVERY CC1 must be examined for microbial contamination prior to use. The signs indicating contamination or instability of this product are: turbidity of the solution, odor development or precipitation. At the first sign of possible reagent contamination or instability, call your local Ventana Office.
2. DISCOVERY CC1 has been optimally formulated for use on VENTANA DISCOVERY automated slide stainers. Dilution of this product will result in poor instrument performance and possible loss of staining.

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