

## LCS (Predilute)

**REF** 650-010  
05264839001

### INDICATIONS AND USE

#### Intended Use

Ventana Medical Systems' (Ventana) LCS (Predilute), also known as LCS or Liquid Coverslip (High Temperature) is a prediluted coverslip solution used as a barrier between the aqueous reagents and the air. This barrier prevents evaporation, thereby providing a stable aqueous environment for the immunohistochemistry or *in situ* hybridization reactions carried out on Ventana automated slide stainer.

This product is designed for use on the BenchMark and BenchMark XT automated slide stainers. This reagent is not to be used on the Ventana NexES IHC, NexES Special Stains or ES automated slide stainers.

This reagent is intended for *in vitro* diagnostic use.

### PRINCIPLES OF THE PROCEDURE

LCS (Predilute) is composed of organic oil molecules having a density significantly less than that of water. When applied to an aqueous buffer pool the surface tension causes the lighter oil to spread out over the surface of the buffer forming a chamber. This results in an effective barrier between the buffer and the air preventing evaporation of the aqueous reagent pool. In addition, the surface layer of LCS allows the addition of other aqueous reagents from above to pass through and enter the buffer pool on the slide. Ventana's automated slide stainer automatically applies LCS (Predilute) as needed throughout the various staining protocols.

### MATERIALS AND METHODS

#### Reagents Provided

One 2 liter bottle of LCS (Predilute) solution contains a low density, paraffinic hydrocarbon and mineral oil.

#### Reconstitution, Mixing, Dilution, Titration

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

#### Storage and Handling

Store at room temperature (15°-30°C). Do not freeze.

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.

### WARNINGS AND PRECAUTIONS

1. For *in vitro* diagnostic (IVD) use.
2. LCS (Predilute) is designed for use on the Ventana BenchMark Series automated slide stainers. This reagent is not to be used on the NexES Special Stains automated slide stainers.
3. Avoid spilling this reagent. If this precaution is not taken, the user risks a slip and fall.
4. This reagent may be harmful if swallowed or inhaled. It may cause short-term skin or eye irritation and may be irritating to mucous membranes and the respiratory tract. If reagents come in contact with sensitive areas, wash with copious amounts of water. Use protective clothing and gloves. Do not inhale.
5. Avoid microbial contamination of reagents as this could produce incorrect results.
6. Consult local or state authorities with regard to recommended method of disposal.
7. Refer to the MSDS for additional precautions and warnings.

### INSTRUCTIONS FOR USE

LCS (Predilute) is poured directly into the 2 liter LCS bottle in the appropriate position (LCS) of the automated fluidics module. LCS (Predilute) solution is automatically applied by the automated slide stainer as required by the protocol being run.

Prior to the initial use of the LCS (Predilute) solution in the user's laboratory, appropriate staining should be verified by staining a number of positive and negative controls. Ventana recommends positive controls be placed on the same slide as the patient tissue sample. Variable results may occur due to tissue fixation. The clinical interpretation of any staining or its absence must be complemented by morphological studies and evaluation of proper controls. Evaluation must be made by a qualified pathologist within the context of the patient's clinical history and other diagnostic tests.

Ventana reagents have been developed for use on Ventana automated slide stainers in combination with Ventana detection kits, primary antibodies, probes and accessories. Recommended staining protocols for the automated slide stainers are described in the package insert of the primary antibody or probe of interest. The staining protocols can be displayed, printed and edited according to the procedure in the Operator's Manual. Other operating parameters for the automated slide stainers have been preset at the factory. For more detailed instructions and additional protocol options refer to the appropriate detection kit package insert or your Operator's Manual.

### LIMITATIONS

1. LCS (Predilute) solution 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 support representative.
2. LCS (Predilute) solution has been optimally formulated for use on Ventana automated slide stainers. Dilution of this product will result in poor instrument performance and possible loss of staining.
3. LCS constituents, as expected with petroleum derivatives, have been reported to aid in the sample deparaffinization process. The suitability for this purpose is sample dependent and application specific and must be validated by the end user.

### TROUBLESHOOTING

For troubleshooting information, contact your local support representative.

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