ALPHA DIAGNOSTIC INTERNATIONAL

Product Specification Sheet

Antigen retrieval solutions

□Cat # ARS6-50	Sodium citrate pH 6 Antigen retrieval solution (100X)	**SIZE**: 50 mL
□Cat # ARS8-50	EDTA pH 8.0, Antigen retrieval solution (100x)	**SIZE**: 50 mL
□Cat # ARS9-50	Tris-EDTA pH 9.0, Antigen retrieval solution (100X)	**SIZE**: 50 mL

During the process of formalin fixation, proteins in tissues may cross-link and mask the epitope of an antibody to the protein. Antigen retrieval is a process which can enable the epitopes to be "retrieved" that are masked during fixation. Antigen retrieval can typically be performed through enzymatic methods with proteases such as proteinase K or heat induced methods (HIER) using a variety of buffers. In some cases, antigen retrieval may not be necessary while in other cases staining may only be achieved by using antigen retrieval. The optimal method will vary between antibodies. The most commonly used antigen retrieval solutions for the majority of the antibodies are sodium citrate pH 6, and Tris-EDTA pH 9.

Storage of Solutions

Storage: 4°C for 6-12 months

Preparation of Antigen retrieval solution

Dilute 100-fold with distilled water before use

General procedure (microwave)

1) Heat the tissue on the slides at 60°C for 20 minutes on a slide warmer to prevent the tissue from falling off during retrieval
2) Deparaffinize sections and rehydrate
3) Fill the container with enough solution to keep the tissue fully immersed. **Note**: Some solution will evaporate during heating
4) Microwave on high until the solution is boiling (95-100°C)
5) Keep the slides warm by heating on Low power. Let the slides sit in the solution for 10-20 minutes
6) Remove the slides from the microwave and allow to cool in the coplin jar for 20 minutes
7) Remove the slides from the solution and rinse with water
8) Proceed with appropriate staining protocol

This product is for In vitro research use only.

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