

Ammonia Solution (0.1%)

A1507829

Storage: Room Temperature. Store in the dark.

Introduction:

Ammonia water, also known as ammonium hydroxide, has a molecular weight of 35.05, a molecular formula of NH_4OH , and a CAS number of 1336-21-6. It is an aqueous solution of ammonia, which is colorless, transparent, and has a pungent odor. The blueing process after HE staining (Hematoxylin-Eosin staining) or other tissue staining is of great importance. Hematoxylin exists in a red ionic state under acidic conditions, showing a red color; under alkaline conditions, it is in a blue ionic state, presenting a blue color. After differentiation with hydrochloric acid-ethanol, tissue sections turn red or pink. Therefore, immediately after differentiation, water should be used to remove the acid from the tissue sections to terminate the differentiation process, and then weakly alkaline water is applied to make the cell nuclei stained by hematoxylin appear blue. This process is called the blueing effect or bluing process. Ammonia Solution (0.1%) is mainly composed of ammonia water and deionized water. It is often used for the blueing process after HE staining or other tissue staining, and is a very important auxiliary reagent. This reagent is only for scientific research purposes and is not suitable for clinical diagnosis or other applications.

Operating Procedures (for reference only):

1. Operate in accordance with the specific requirements of the experiment. After bluing, the sections should be rinsed thoroughly with water immediately.
2. Generally, the bluing time ranges from 3 to 30 seconds, and the duration should be adjusted based on the specific type of tissue and the thickness of the sections.

Precautions:

1. Store in a sealed container. Once opened, use it as soon as possible, as its active ingredients are volatile.
2. After opening the reagent, use it promptly to avoid affecting the results of subsequent experiments.
3. For your safety and health, please wear a lab coat and disposable gloves during operation.