

Ammonia Solution (0.5%)

Cat #: A-CSH639

Size: 500mL

Storage: Room temperature (12 months)

Product Description

Ammonia solution, also known as ammonium hydroxide, has a molecular weight of 35.05 and a molecular formula of NH_4OH . Its CAS number is 215-647-6. Ammonia solution is a water solution of ammonia gas, which is colorless, transparent, and has a pungent odor. The process of bluing is crucial after HE staining or other tissue staining. Under acidic conditions, hematoxylin exists as a red ion and appears red. Under alkaline conditions, it exists as a blue ion and appears blue. Tissue sections appear red or pink after differentiation with hydrochloric acid ethanol. Therefore, after differentiation, the acid on the tissue sections is immediately removed with water to terminate the differentiation. Then, a weak alkaline solution is used to turn the stained cell nuclei blue. This process is called bluing or blueing.

Ammonia Solution (0.5%) is mainly composed of ammonia solution and deionized water. It is frequently used as an important auxiliary reagent for bluing after HE staining or other tissue staining.

Usage

1. Operate according to specific experimental requirements, and rinse thoroughly with water after bluing.
2. Generally, perform bluing for 3 to 30 seconds, adjusting the time based on the specific tissue and thickness of the sections.

Notes

1. Store in a sealed container and use it as soon as possible once opened, as the active ingredients are volatile.
2. For your safety and health, please wear laboratory attire and disposable gloves while handling.

Disclaimer

The reagent is only used in the field of scientific research, not suitable for clinical diagnosis or other purposes.