

Bielschowsky'S Neurofibrillary Staining Solution

Cat #: A-CSH399

Size: 100mL

Storage: 2-8°C, avoid light (3 months)

Product Description

Neurons, also known as nerve cells, are the basic units that constitute the structure and function of the nervous system. Neurons are cells with long processes (axons) and are composed of cell bodies and cell extensions. The long axon is covered by a sheath, forming a nerve fiber, and its fine branches at the end are called nerve terminals. There are several staining methods for neurons and nerve fibers, including silver staining and toluidine blue staining.

Bielschowsky staining is commonly used in the diagnosis and differentiation of certain neurosystem tumors. This staining method shows positive results for neurofibromas and ganglioneuromas, while negative for schwannomas, among others.

Usage

1. Deparaffinize the paraffin sections and rinse with water.
2. Rinse with distilled water for 1 minute.
3. Immerse the sections in preheated Bielschowsky silver nitrate solution at 37°C for 25-35 minutes (the sections will appear pale yellow).
4. Without rinsing, directly immerse the sections in 4% formaldehyde solution until the liquid becomes clear.
5. Quickly transfer the sections to Bielschowsky ammoniacal silver solution for 30-60 seconds.
6. Remove the sections and use filter paper to remove excess Bielschowsky ammoniacal silver solution around the tissue.
7. Without rinsing, directly place the sections in 4% formaldehyde solution for 2-3 minutes, changing the solution 2-3 times.
8. Rinse with tap water, then rinse with distilled water.

9. Fix the sections with 5% sodium thiosulfate solution for 5 minutes.
10. Thoroughly rinse with tap water.
11. Dehydrate with 95% ethanol and absolute ethanol, clear with xylene, and mount with neutral mounting medium.

Notes

1. Control the depth of immersion under a microscope in step 6. If the immersion is insufficient, repeat step 5 once.
2. The glassware used should be clean, repeatedly rinsed with water and distilled water to reduce nonspecific staining.
3. For your safety and health, please wear lab attire and disposable gloves while performing the procedure.

Disclaimer

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