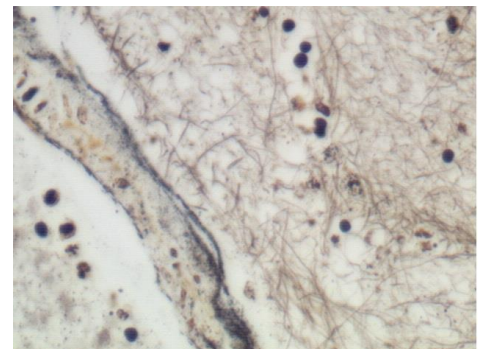


Bielschowsky's Stain Kit (Modified)

Description: The Bielschowsky's Stain Kit (Modified) is designed for histological visualization of nerve fibers, neurofibrillary tangles and senile plaques in Alzheimer's disease.

Axons:	Black
Neurofibrillary Tangles:	Black
Senile Plaques:	Black
Nuclei:	Dark Brown
Background:	Yellow to Light Brown

Uses/Limitations: Not to be taken internally.
For In-Vitro Diagnostic use only.
Histological applications.
Do not use if reagent becomes cloudy.
Do not use past expiration date.
Use caution when handling reagents.
Non-Sterile



Control Tissue: Cerebral cortex.

Availability:

<u>Item #</u>	<u>Kit Contents</u>	<u>Volume</u>	<u>Storage</u>
SSC-SNZ500	Silver Nitrate Solution (20%)	500 ml	2-8°C
SSC-FRL008	Formalin Solution (20%)	8 ml Dropper	18-25°C
SSC-CAS008	Citric Acid Solution (Bielschowsky's)	8 ml Dropper	18-25°C
SSC-NAS008	Nitric Acid Solution (Bielschowsky's)	8 ml Dropper	18-25°C
SSC-STB125	Sodium Thiosulfate Solution (5%)	125 ml	18-25°C

Storage: **Mixed Storage Conditions. Separate Contents.** Store according to individual label instructions.

Precautions: Avoid contact with skin and eyes.
Harmful if swallowed.
Follow all Federal, State, and local regulations regarding disposal.

Required but Not Included: Concentrated Ammonium Hydroxide.

Preparation of Reagents Prior to Beginning:

1. Prepare working **Ammonia Water** by mixing 320µl (8 drops) of concentrated Ammonium Hydroxide (not included) in 50 ml of distilled water.
2. Prepare working **Ammoniacal Silver Solution** using chemically cleaned glassware in a chemical fume hood as follows:
Pour 25ml of Silver Nitrate Solution (20%) into container. Add concentrated ammonium hydroxide; drop by drop, while swirling the flask continuously, until precipitate just dissolves and the reagent goes clear.
Note: Use extreme care in preparation and use of Ammoniacal Silver Solution. Use mixture once and dispose. Dispose of waste observing all local, state and federal laws.
3. Prepare **Developer Solution** using chemically cleaned glassware immediately prior to use as follows:

Swirl carefully throughout mixing steps.

50 ml Distilled Water
8 Drops Formalin Solution (20%)
8 Drops Citric Acid Solution (Bielschowsky's)
4 Drops Nitric Acid Solution (Bielschowsky's)

Procedure:

Preheat waterbath to 40°C

1. Deparaffinize sections if necessary and hydrate to distilled water.
2. Place a chemically cleaned staining jar containing 25ml of Silver Nitrate Solution (20%) in waterbath and allow temperature to equilibrate for 10 minutes.
3. Place slide in warmed Silver Nitrate Solution (20%) and incubate for 15 minutes at 40°C.
4. During incubation place Ammoniacal Silver Solution in waterbath in allow temperature to equilibrate.
5. Remove slide from Silver Nitrate Solution (20%) and rinse in 4 changes of distilled water.
6. Place slide in warmed Ammoniacal Silver Solution and incubate for 10 minutes at 40°C.
7. Remove slide from Ammoniacal Silver Solution, shake off excess and place directly into Developer Solution. Agitate gently until tissue section takes on a yellow/brown hue (5-20 seconds).
8. Remove slide from Developer Solution and immediately place in Ammonia Water for 30 seconds.
9. Rinse in 4 changes of distilled water.
10. Apply adequate Sodium Thiosulfate Solution (5%) to completely cover tissue section and incubate for 2 minutes.
11. Rinse in 4 changes of distilled water.
12. Dehydrate in 3 changes of absolute alcohol for 2 minutes each.
13. Clear, and mount in synthetic resin.



Lot-to-Lot Validation Form
Bielchowsky's Stain Kit Catalog: SSK-BSK-1

Kit Lot Number: _____
 Kit Expiration Date: _____
 Date Tested: _____
 Control Tissue (#) _____
 Approved for Use: Y/N _____
 Date put into use: _____

Kit Component	Lot #
Silver Nitrate Sol (20%)	_____
Formalin Solution (20%)	_____
Citric Acid Solution (Biel)	_____
Nitric Acid Solution (Biel)	_____
Sodium Thiosulfate (5%)	_____

If not approved, corrective actions taken:	_____
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Approved by: _____

Replacement Component if used	Replacement Date	Lot #	Accepted Y/N	Comments
Silver Nitrate (20%)				
Formalin Solution (20%)				
Citric Acid (Biel)				
Nitric Acid (Biel)				
Sodium Thiosulfate (5%)				
Approved By: _____				

StatLab is providing this form to assist with reagent lot validation as stated in CLIA'88 Standard 493.1256-For reagent(s), the laboratory must do the following: Check each batch (prepared in-house), lot number (commercially prepared) and shipment of reagents, stains, and identification systems (systems using two or more substrates or two or more reagents, or a combination) when prepared or opened for positive and negative reactivity, if applicable.