



Edition: BP 2025 (Ph. Eur. 11.6 update)

## Silver Nitrate Eye Drops

### [General Notices](#)

*NOTE: This monograph has been developed to cover unlicensed formulations.*

### DEFINITION

Silver Nitrate Eye Drops are a sterile solution of Silver Nitrate in Purified Water.

*The eye drops comply with the requirements stated under [Eye Preparations](#) and with the following requirements. Where appropriate, the eye drops also comply with the requirements stated under Unlicensed Medicines.*

**Content of silver nitrate,  $\text{AgNO}_3$ ,**

95.0 to 105.0% of the stated amount.

### IDENTIFICATION

Yields the reactions characteristic of *silver salts* and of *nitrates*, Appendix VI.

### TESTS

#### Acidity

pH, 4.5 to 6.0, [Appendix V L](#).

#### Clarity and colour of solution

The solution is *clear*, [Appendix IV A](#), and *colourless*, [Appendix IV B](#), Method II.

### ASSAY

Dilute a volume containing 50 mg of Silver Nitrate with 20 mL of [water](#) and add 2 mL of [dilute nitric acid](#) and 2 mL of [ammonium iron\(III\) sulfate solution R2](#). Titrate with 0.02M [ammonium thiocyanate VS](#) until a reddish-yellow colour is obtained. Each mL of 0.02M [ammonium thiocyanate VS](#) is equivalent to 3.397 mg of  $\text{AgNO}_3$ .

### STORAGE

Silver Nitrate Eye Drops should be protected from light.

