



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

Silver Nitrate Sterile Solution

[General Notices](#)

Sterile Silver Nitrate Solution

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

DEFINITION

Silver Nitrate Sterile Solution is a sterile *cutaneous solution*. It contains Silver Nitrate in Purified Water.

The solution complies with the requirements stated under Liquids for Cutaneous Application and with the following requirements. Where appropriate, the solution also complies with the requirements stated under Unlicensed Medicines.

Content of silver nitrate, 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.

[Sterility](#)

Complies with the [test for sterility](#), [Appendix XVI A](#).

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 AgNO_3 .

STORAGE

Silver Nitrate Sterile Solution should be protected from light.

