



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

Sodium Bicarbonate Eye Lotion

[General Notices](#)

DEFINITION

Sodium Bicarbonate Eye Lotion is a sterile aqueous solution of Sodium Bicarbonate.

Extemporaneous preparation

The following directions apply.

Dissolve the Sodium Bicarbonate in sufficient Purified Water, clarify by filtration, transfer the filtered solution into the final container, close the container so as to exclude micro-organisms and sterilise by [heating in an autoclave](#).

The eye lotion complies with the requirements stated under Eye Preparations and with the following requirements.

Content of sodium bicarbonate, NaHCO_3

90.0 to 110.0% of the stated amount.

IDENTIFICATION

- A. The residue on evaporation, when moistened with [hydrochloric acid](#) and introduced on a platinum wire into a flame, imparts a yellow colour to the flame.
- B. Yields reaction A characteristic of [sodium salts](#) and the reactions characteristic of *bicarbonates*, [Appendix VI](#).

ASSAY

Titrate a volume containing 1 g of Sodium Bicarbonate with [0.5M hydrochloric acid VS](#) using [methyl orange solution](#) as indicator. Each mL of [0.5M hydrochloric acid VS](#) is equivalent to 42.00 mg of NaHCO_3 .

Containers

Sodium Bicarbonate Eye Lotion is supplied in suitable containers with a nominal volume of not more than 1 litre.

STORAGE

Containers that have previously been subjected to heating in an autoclave should not be re-used to keep Sodium Bicarbonate Eye Lotion.

When Sodium Bicarbonate Eye Lotion is prescribed or demanded no strength being stated, a lotion containing 2% w/v of Sodium Bicarbonate shall be dispensed or supplied.

