



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

Sodium Bicarbonate Infusion

[General Notices](#)

Sodium Bicarbonate Injection; Sodium Bicarbonate Intravenous Infusion

DEFINITION

Sodium Bicarbonate Infusion is a sterile solution containing Sodium Bicarbonate. It is supplied as a ready-to-use solution.

The infusion complies with the requirements stated under Parenteral Preparations and with the following requirements.

Content of sodium bicarbonate, NaHCO_3

94.0 to 106.0% 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](#).

TESTS

[Bacterial endotoxins](#)

Carry out the [test for bacterial endotoxins](#), [Appendix XIV C](#). The endotoxin limit concentration is less than 1.7 IU per mL of Sodium Bicarbonate Infusion.

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 .

STORAGE

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

LABELLING

<https://nhathuocngocanh.com/bp/>

The strength is stated as the percentage w/v of Sodium Bicarbonate.

The label states (1) that containers containing visible particles must not be used; (2) the approximate concentrations, in millimoles per litre, of the sodium ions and the bicarbonate ions.

For a preparation containing 1.4% w/v of Sodium Bicarbonate the concentration of each ion is stated as 167 millimoles per litre.