



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

## Calcium Chloride Injection

### [General Notices](#)

### DEFINITION

Calcium Chloride Injection is a sterile solution of Calcium Chloride Dihydrate in Water for Injections.

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

#### Content of calcium chloride dihydrate, $\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$

95.0 to 105.0% of the stated amount.

### IDENTIFICATION

- A. 1 mL yields reaction C characteristic of *calcium salts*, [Appendix VI](#).  
B. Dilute 1 volume of the injection to 50 mL with [water](#). The resulting solution yields reaction A characteristic of *chlorides*, [Appendix VI](#).

### TESTS

#### Acidity or alkalinity

pH 5.0 to 8.0, [Appendix V L](#).

#### [Colour of solution](#)

The injection is not more intensely coloured than [reference solution BY<sub>6</sub>](#), [Appendix IV B](#), Method II.

### ASSAY

Carry out the [complexometric titration of calcium](#), [Appendix VIII D](#). Use a volume of the injection containing about 0.3 g of Calcium Chloride Dihydrate. Each mL of 0.1M [sodium edetate](#) is equivalent to 14.70 mg of  $\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$ .

### LABELLING

The label states (1) the percentage w/v of Calcium Chloride Dihydrate; (2) the concentration of calcium ion as millimoles in a suitable volume; (3) the concentration of chloride ion as millimoles in a suitable volume; (4) that solutions containing visible solid particles must not be used.

When calcium chloride intravenous infusion is prescribed or demanded, Calcium Chloride Injection shall be dispensed or supplied.