



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

## Diazepam Injection

### [General Notices](#)

#### Action and use

Benzodiazepine.

### DEFINITION

Diazepam Injection is a sterile solution of Diazepam in Water for Injections or other suitable solvent.

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

#### Content of diazepam, $C_{16}H_{13}ClN_2O$

90.0 to 110.0% of the stated amount.

### IDENTIFICATION

- A. The [light absorption](#), [Appendix II B](#), of the solution obtained in the Assay exhibits a maximum at 368 nm.
- B. Complies with test B for Identification described under [Diazepam Tablets](#) applying separately to the plate 10 µL of each of the following solutions. For solution (1) dilute a suitable volume of the injection with sufficient [methanol](#) to produce a solution containing 0.10% w/v of Diazepam. Solution (2) contains 0.10% w/v of [diazepam BPCRS](#) in [methanol](#).

### TESTS

#### Acidity or alkalinity

pH, 6.2 to 7.0, [Appendix V L](#).

### ASSAY

To a volume containing 10 mg of Diazepam add 20 mL of [mixed phosphate buffer pH 7.0](#) and extract with four 20 mL quantities of [chloroform](#), passing each extract through the same 5 g of [anhydrous sodium sulfate](#). Combine the chloroform extracts, dilute to 100 mL with [chloroform](#) and mix. Evaporate 10 mL to dryness in a current of nitrogen, dissolve the residue in 25 mL of 0.05M [methanolic sulfuric acid](#), mix and measure the [absorbance](#) of the resulting solution at the maximum at 368 nm, [Appendix II B](#). Calculate the content of  $C_{16}H_{13}ClN_2O$  taking 151 as the value of A(1%, 1 cm) at the maximum at 368 nm.

### STORAGE

Diazepam Injection should be protected from light.

