



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

Piperazine Citrate Tablets

[General Notices](#)

Action and use

Antihelminthic.

DEFINITION

Piperazine Citrate Tablets contain Piperazine Citrate.

The tablets comply with the requirements stated under Tablets and with the following requirements.

Content of anhydrous piperazine citrate, $(C_4H_{10}N_2)_3 \cdot 2C_6H_8O_7$

81.6 to 96.8% of the stated amount of Piperazine Citrate.

IDENTIFICATION

Extract a quantity of the powdered tablets containing 1 g of Piperazine Citrate with 20 mL of [water](#) and filter. The filtrate complies with the following tests.

- A. Dilute 1 mL to 5 mL with [water](#), add 0.5 g of [sodium hydrogen carbonate](#), 0.5 mL of [potassium hexacyanoferrate\(III\) solution](#) and 0.1 mL of [mercury](#), shake vigorously for 1 minute and allow to stand for 20 minutes; a reddish colour slowly develops.
- B. Mix 4 mL with 1 mL of [hydrochloric acid](#), add 0.5 g of [sodium nitrite](#), heat to boiling, cool in ice for 15 minutes, scratching the side of the container with a glass rod to induce crystallisation and filter. The [melting point](#) of the crystals, after washing with 10 mL of iced [water](#) and drying at 100° to 105°, is about 159°, [Appendix V A, Method I](#).
- C. Yield the reactions characteristic of *citrates*, [Appendix VI](#).

ASSAY

Weigh and powder 20 tablets. Dissolve as completely as possible a quantity of the powder containing 0.2 g of Piperazine Citrate in 10 mL of [water](#), filter and wash the filter with three 5 mL quantities of [water](#). To the combined filtrate and washings add 3.5 mL of 0.5M [sulfuric acid](#) and 100 mL of [picric acid solution R1](#), heat on a water bath for 15 minutes, allow to stand for 1 hour, filter, wash the residue with [piperazine dipicrate solution](#) until the washings are free from sulfate and dry the residue to [constant weight](#) at 105°. Each g of residue is equivalent to 0.3935 g of $(C_4H_{10}N_2)_3 \cdot 2C_6H_8O_7$.

STORAGE

Piperazine Citrate Tablets should be protected from light.

