

Quality standards

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

Acepromazine Tablets

General Notices

Action and use

Dopamine receptor antagonist; neuroleptic.

DEFINITION

Acepromazine Tablets contain Acepromazine Maleate.

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

Content of acepromazine, C₁₉H₂₂N₂OS

92.5 to 107.5% of the stated amount.

IDENTIFICATION

- A. To a quantity of the powdered tablets containing the equivalent of 20 mg of acepromazine add 2 mL of <u>water</u> and 3 mL of 2M <u>sodium hydroxide</u>. Extract with two 5 mL quantities of <u>cyclohexane</u> and evaporate to dryness under reduced pressure. The <u>infrared absorption</u> <u>spectrum</u> of the residue, <u>Appendix II A</u>, is concordant with the <u>reference spectrum</u> of acepromazine <u>(RSV 01)</u>.
- B. Complies with the test for <u>identification of phenothiazines</u>, <u>Appendix III A</u>, applying to the plate 1 μ L of each of the following solutions. For solution (1) extract a quantity of the powdered tablets containing the equivalent of 20 mg of acepromazine with two 5 mL quantities of <u>chloroform</u>. Solution (2) is a solution of <u>acepromazine maleate BPCRS</u> in <u>chloroform</u> containing the equivalent of 0.2% w/v of acepromazine.
- C. To a quantity of the powdered tablets containing the equivalent of 5 mg of acepromazine add 2 mL of *sulfuric acid*. A yellow colour is produced which becomes deep orange on warming for 2 minutes.
- D. Dissolve as completely as possible a quantity of the powdered tablets containing the equivalent of 25 mg of acepromazine in a mixture of 3 mL of <u>water</u> and 2 mL of <u>5M sodium</u> hydroxide and shake with three 3 mL quantities of <u>ether</u>. Add 2 mL of <u>bromine solution</u> to the

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aqueous solution, warm in a water bath for 10 minutes, heat to boiling and cool. Add 0.25 mL to a solution of 10 mg of <u>resorcinol</u> in 3 mL of <u>sulfuric acid</u> and heat for 15 minutes on a water bath. A bluish black colour develops.

TESTS

Related substances

Comply with the test for <u>related substances in phenothiazines</u>, <u>Appendix III A</u>, but using a mixture of 8 volumes of <u>diethylamine</u>, 17 volumes of <u>butan-2-one</u> and 75 volumes of n-<u>hexane</u> as the mobile phase and using the following solutions. For solution (1) shake a quantity of the powdered tablets containing the equivalent of 50 mg of acepromazine with 10 mL of <u>chloroform</u>, filter, evaporate to dryness and dissolve the residue in 5 mL of <u>methanol</u> containing 0.5% v/v of 13.5м <u>ammonia</u>. For solution (2) dilute 1 volume of solution (1) to 100 volumes with <u>methanol</u> containing 0.5% v/v of 13.5м <u>ammonia</u>.

ASSAY

Weigh and powder 20 tablets. To a quantity of the powder containing the equivalent of 60 mg of acepromazine add 5 mL of <u>water</u> and extract with three or more 50 mL quantities of <u>chloroform</u> or until the chloroform extract is colourless. Evaporate to dryness and dissolve the residue in 15 mL of <u>acetic anhydride</u>. Carry out Method I for <u>non-aqueous titration</u>, <u>Appendix VIII A</u>, using <u>0.02m</u> <u>perchloric acid VS</u> as titrant and <u>crystal violet solution</u> as indicator. Each mL of <u>0.02m perchloric acid VS</u> is equivalent to 6.529 mg of $C_{19}H_{22}N_2OS$.

LABELLING

The quantity of the active ingredient is stated in terms of the equivalent amount of acepromazine.