



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

Decoquate Premix

[General Notices](#)

Action and use

Antiprotozoal (veterinary).

DEFINITION

Decoquate Premix contains Decoquate.

The premix complies with the requirements stated under Premixes and with the following requirements.

Content of decoquate, $C_{24}H_{35}NO_5$

95.0 to 105.0% of the stated amount.

IDENTIFICATION

Carry out the method for [thin-layer chromatography, Appendix III A](#), using the following solutions.

- (1) Heat a quantity containing 0.1 g of Decoquate with 40 mL of [chloroform](#) for 20 minutes on a water bath under a reflux condenser, cool and filter.
- (2) 0.25% w/v of [decoquate BPCRS](#) in [chloroform](#).

CHROMATOGRAPHIC CONDITIONS

- (a) Use as the coating [silica gel GF₂₅₄](#).
- (b) Use the mobile phase as described below.
- (c) Apply 10 µL of each solution.
- (d) Develop the plate to 15 cm.
- (e) After removal of the plate, dry in air and examine under [ultraviolet light \(254 nm\)](#).

MOBILE PHASE

30 volumes of [ethanol \(96%\)](#) and 70 volumes of [chloroform](#).

CONFIRMATION

The principal spot in the chromatogram obtained with solution (1) corresponds in position and colour to that in the chromatogram obtained with solution (2).

ASSAY

Heat a quantity containing 0.2 g of Decoquate with 50 mL of [chloroform](#) in an apparatus for the [continuous extraction of drugs, Appendix XI F](#), for eight reflux cycles. Cool and add sufficient [chloroform](#) to produce 100 mL. Dilute 5 mL to 100 mL with [absolute ethanol](#). To 5 mL add 10 mL of [0.1 M hydrochloric acid](#) and dilute to 100 mL with [absolute ethanol](#). Measure

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

the [absorbance](#) of the resulting solution at the maximum at 265 nm, [Appendix II B](#). Dissolve 50 mg of [decoquate BPCRS](#) in 10 mL of hot [chloroform](#) and, keeping the solution warm, add slowly 70 mL of [absolute ethanol](#). Cool, dilute to 100 mL with [absolute ethanol](#) and immediately dilute 10 mL to 100 mL with [absolute ethanol](#). To 10 mL of the resulting solution add 10 mL of [0.1M hydrochloric acid](#) and dilute to 100 mL with [absolute ethanol](#). Calculate the content of $C_{24}H_{35}NO_5$ in the premix from the absorbances obtained using the declared content of $C_{24}H_{35}NO_5$ in [decoquate BPCRS](#).