



Doxapram HCI

Easy, rapid isocratic assay





Note: Doxapram is a respiratory stimulant. It acts by stimulating chemoreceptors in the carotid bodies of the carotid arteries. It is sold in trade names such as Dopram[®], Stimulex[®], and Respiram[®].



Method Conditions

Column: Cogent Diamond Hydride™, 4µm, 100Å

Catalog No.: 70000-7.5P

Dimensions: 4.6 x 75 mm

Mobile Phase: 5% DI H₂O / 95% acetonitrile / 0.1% (v/v) trifluoroacetic acid

Injection vol.: 1µL

Flow rate: 1.0 mL/min

Detection: UV 258 nm

 $\label{eq:sample: lmg/mL doxapram HCl in diluent of 50/50/0.1 (v/v) DI H_2O / acetonitrile / trifluoroacetic acid$

Peak: 1. Doxapram

t₀: 0.9 min

Discussion

Automating this method is a distinct advantage over the official USP method which is done by titration. Not only will this method save time and money but will reduce errors when automated. The method is simple to perform as shown and the mobile phase can be quickly prepared without errors. A highly symmetrical peak is obtained for the analyte leading to reliable quantitative analysis if one automates or not.

Injections and runs on two lots of columns illustrate the reproducibility from batch to batch of the column exhibiting robustness.

APP-A-200

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