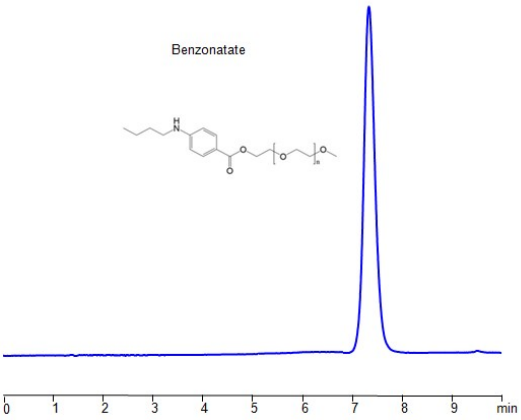
HPLC Method for Analysis of Benzonatate on Primesep 100 Column



Column:	Primesep 100
Column size:	2.1 × 100 mm, 5 µm
Column part number:	100-21.100.0510
Mobile phase:	Gradient MeCN/H_2O – 40-80%, 10 min
Buffer:	H_3PO_4 - 0.2%
Flow rate:	0.2 mL/min
Detection:	UV 310 nm
Injection volume:	1.0 µL
Sample:	0.01 mg/ml
LOD:	1 ppb

Separation type: Liquid Chromatography Mixed-mode SIELC Technologies

Benzonatate is a medication commonly used to relieve cough. It belongs to the class of drugs known as antitussives. Antitussives are substances that suppress or relieve coughing. Benzonatate works by numbing the throat and lungs, reducing the cough reflex.

Cough Suppression: Benzonatate is primarily used to relieve cough caused by conditions such as respiratory infections or irritation of the airways.

Dosage: It is typically taken orally in the form of capsules. It's important not to chew or break the capsules, as this can lead to a numbing sensation in the mouth and throat.

Side Effects: Common side effects may include dizziness, headache, constipation, and upset stomach. Serious allergic reactions are rare but possible.

Caution: It is essential to follow the prescribed dosage and not exceed recommended limits. Overdose can lead to serious side effects, including death.

Precautions: Individuals with a known hypersensitivity or allergic reaction to benzonatate or related compounds should avoid using it.

Benzonatate be retained and analyzed using a Primesep 100 mixed-mode stationary phase column. The analysis employs an isocratic method with a simple mobile phase comprising water, acetonitrile (MeCN), and phosphoric acid as a buffer. This method allows for detection using UV at 310 nm

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Method Parameters

Column	Primesep 100, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	Gradient MeCN40-80%, 10 min
Buffer	H3PO4 -0.2%
Flow Rate	0.2ml/min
Detection	UV 310 nm
Injection Volume	5 µl

Quelle: https://sielc.com/hplc-method-for-analysis-benzonatate