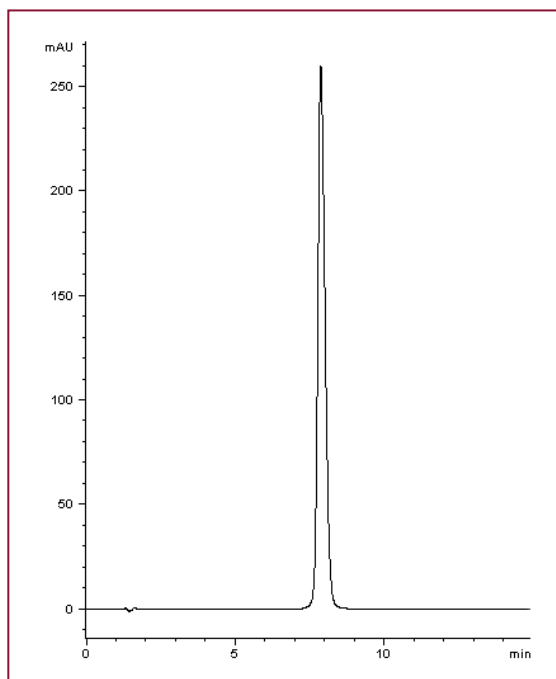
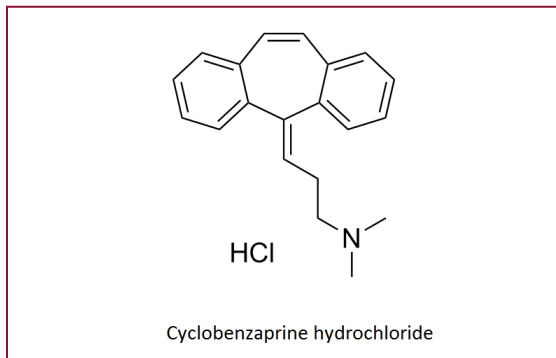


Cyclobenzaprine Hydrochloride

Extended-Release Capsules USP Assay



Method Conditions

Column: Cogent RP C18™, 5µm, 100Å

Catalog No.: 68518-15P

Dimensions: 4.6 x 150 mm

Buffer: Add 3.7 mL of methanesulfonic acid per 1 L of water and adjust with diethylamine to a pH of 3.6

Mobile Phase: Acetonitrile, methanol, and Buffer (25.5:21.0:53.5)

Injection vol.: 20µL

Flow rate: 1.5 mL/min

Detection: 290 nm

Diluent: Acetonitrile and water (50:50)

Standard solution: 0.12 mg/mL of USP Cyclobenzaprine Hydrochloride RS in Diluent

Peaks: 1. Cyclobenzaprine Hydrochloride

Discussion

This method demonstrates the USP Cyclobenzaprine Hydrochloride Extended-Release Capsules Assay in the Cogent RP C18. As shown in the chromatograms, the peak efficiency is superb and USP peak tailing guidelines are easily met with the Cogent RP C18 5µm column. This demonstrates a great alternative column for easy plug and play methods. The Cogent C18 is end-capped and has excellent reproducibility and robustness.

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Notes: Cyclobenzaprine is a muscle relaxant and works by blocking nerve impulses that signal pain sensations sent to your brain. Cyclobenzaprine is used together with rest and physical therapy to relieve muscle spasms caused by painful conditions such as an injury.