

CoreFocus Report

No.614

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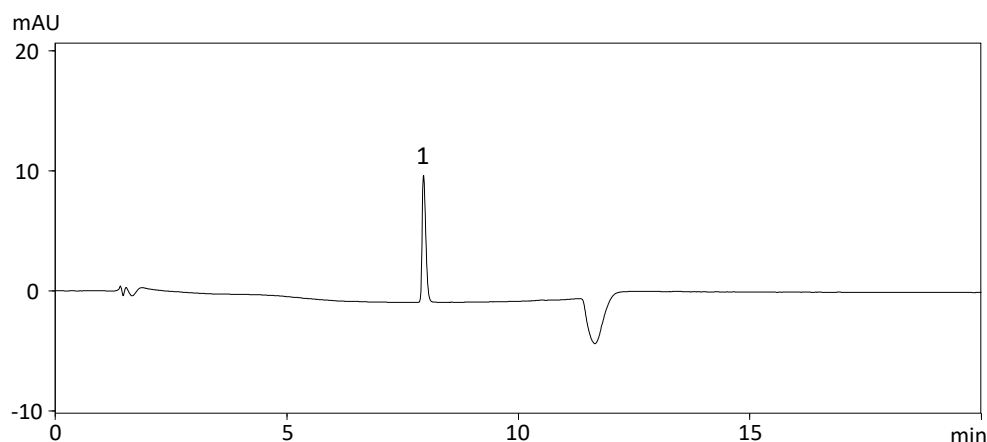
Reversed-phase

Shim-pack™ Series

Shim-pack Arata C18

Analysis of diphenhydramine under acidic condition

Keywords: antihistaminic drug, basic compound



1. Diphenhydramine
(1000 mg/L^{*1})

System	: Nexera™ X3
Column	: Shim-pack Arata C18 150 mm x 4.6 mm I.D., 5 μm ^{*2}
Mobile phases	: A: 0.1% formic acid in water B: 0.1% formic acid in acetonitrile
Flow rate	: 1.5 mL/min
Time program	: 5% (0 min) → 30% (10 min) → 5% (10.01-20 min)
Sample solvent	: Formic acid/Acetonitrile/Water = 0.1/40/60 (v/v/v)
Column oven temp.	: Ambient
Injection vol.	: 1 μL
Detection	: 254 nm (SPD-M40, UHPLC cell)

1*: 1000 mg/L as hydrochloride salt
2*: P/N : 227-32805-04

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