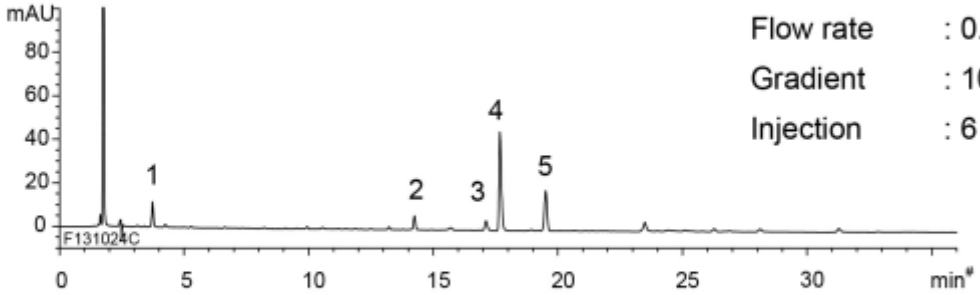
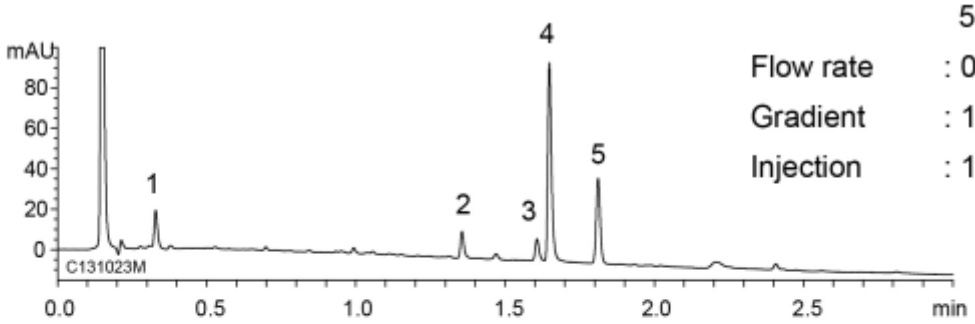
(A) HPLC method

Column : YMC-Triart C18 (5 µm, 12 nm)
150 X 3.0 mmI.D.
Flow rate : 0.425 mL/min
Gradient : 10-90%B (0-36 min)
Injection : 6 µL

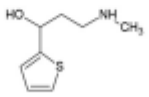


(B) UHPLC method

Column : YMC-Triart C18 (1.9 µm, 12 nm)
50 X 2.0 mmI.D.
Flow rate : 0.8 mL/min
Gradient : 10-90%B (0-3 min)
Injection : 1 µL

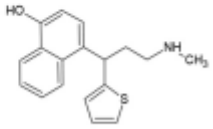


1.



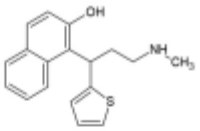
Amino alcohol
(3-Methylamino-1-thiophen-2-yl-propan-1-ol)

2.



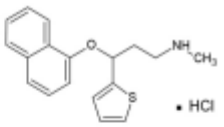
Para isomer
(4-(3-Methylamino-1-thiophen-2-yl-propyl)-naphthalen-1-ol))

3.



Ortho isomer
(2-(3-Methylamino-1-thiophen-2-yl-propyl)-naphthalen-1-ol)

4.



Duloxetine hydrochloride

5.

α-Naphthol

Eluent : A) 10 mM CH_3COONH_4
B) acetonitrile
Temperature : 30°C
Detection : UV at 230 nm
Sample : Oxidative degradation products of duloxetine hydrochloride *

* Sample preparation was performed as described by Veera Reddy. Arava et al. [1]

[1] *Veera Reddy. Arava et al; Der Pharma Chemica, 2012, 4 (4) : 1735-1741*