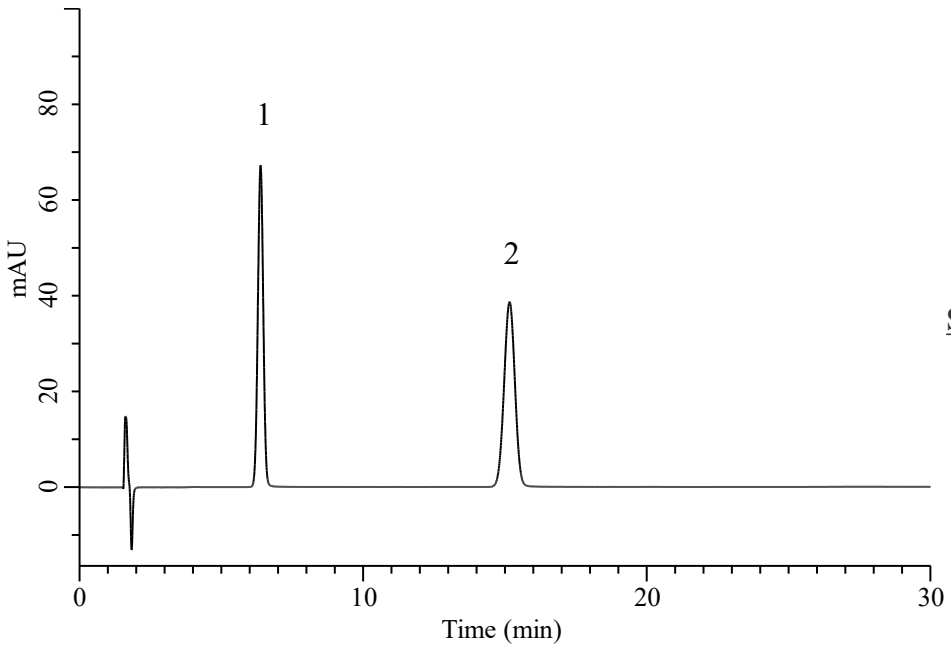
Analysis of Edaravone

(Under the Condition of draft for USP PF52(5), Edaravone Injection, ASSAY)



Standard solution

Conditions

System	:	Primaide (HITACHI)
Column	:	InertSustainSwift C18 (GL Sciences Inc.) (5 µm, 150 x 4.6 mm I.D.)
Column Cat. No.	:	5020-88026
Eluent	:	CH_3OH/Solution*=25/75, v/v (pH 5.5, NH_4OH)
Flow Rate	:	1.2 mL/min
Col. Temp.	:	50 ℃
Detection	:	UV 240 nm (Primaide 1435 DAD)
Injection Vol.	:	10 µL
Sample	:	Standard in CH_3OH

Analyte:

1.	Edaravone	0.03 mg/mL
2.	Ethyl 4-Aminobenzoate	0.2 mg/mL

The relative retention times

Edaravone	: 1.0
Benzocaine	: 2.37

Tailing factor (1)	: (0.8 ≦) 1.02 (≦ 1.8)
Tailing factor (2)	: (0.8 ≦) 0.99 (≦ 1.8)

RSD of
the ratio of 1 to 2 (%)(n=6) : 0.23 (≦ 1.0)

*: 10 mL/L of acetic acid, diluted in water