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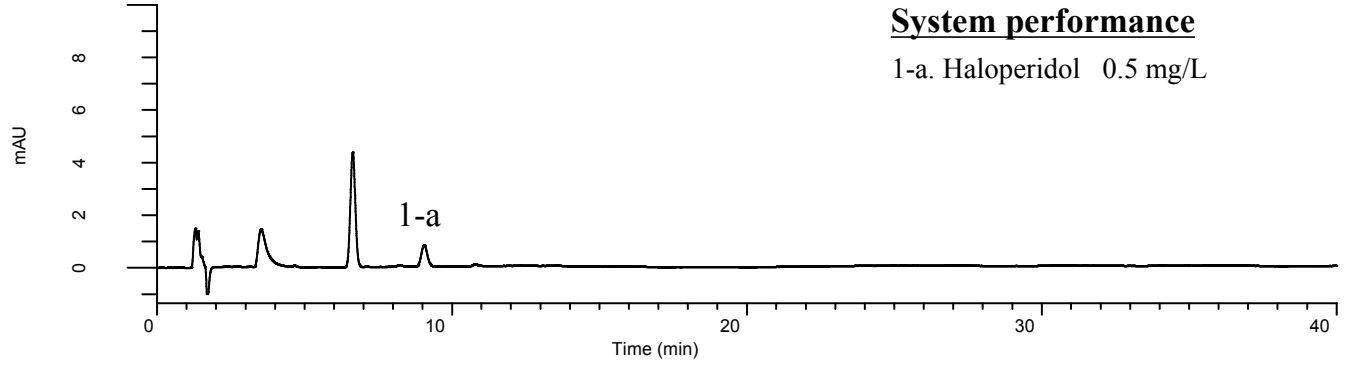
Analysis of Haloperidol

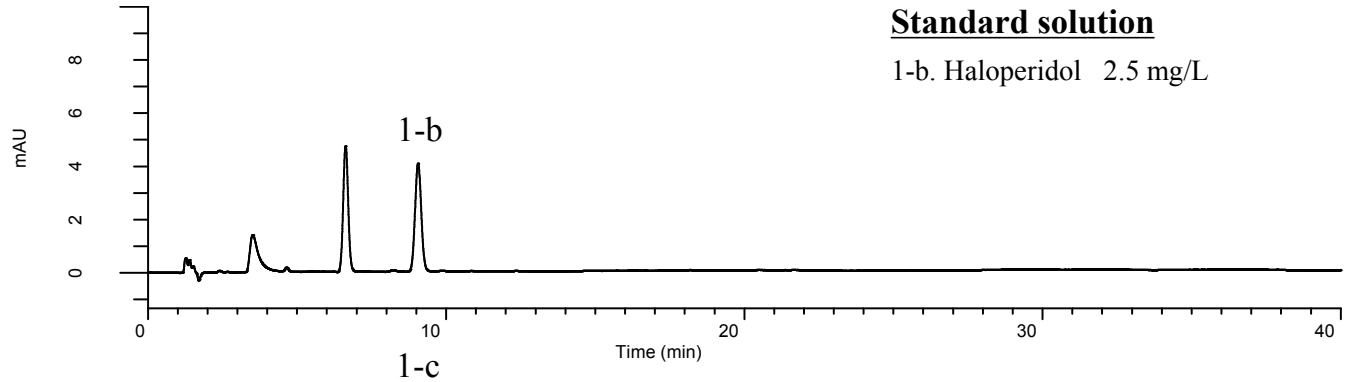
(Under the Condition of the Japanese Pharmacopoeia 17th edition)

Data No. LB431-0894



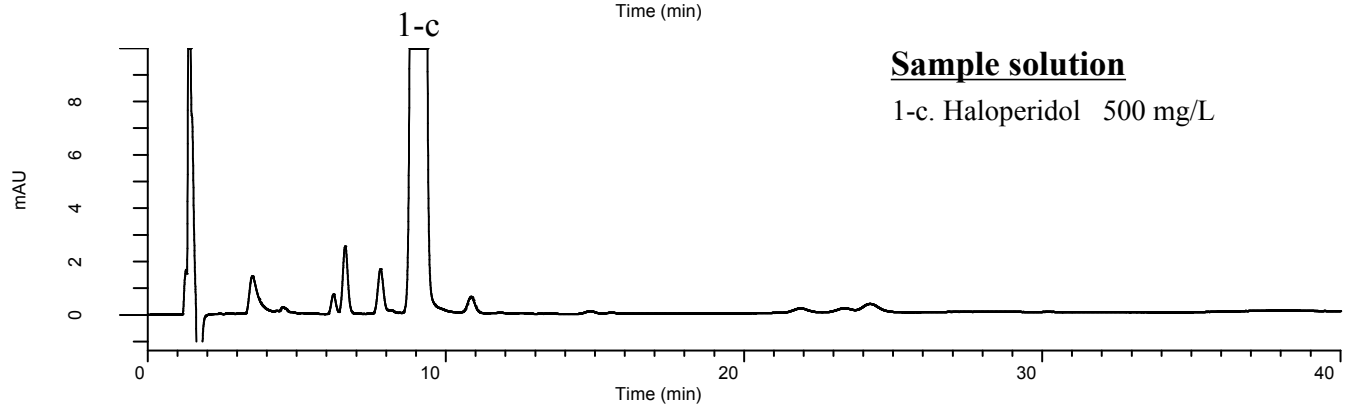
System performance

1-a. Haloperidol 0.5 mg/L



Standard solution

1-b. Haloperidol 2.5 mg/L



Sample solution

1-c. Haloperidol 500 mg/L

Conditions

System : GL7700 HPLC system
Column : Inertsil ODS-4
(5 μm, 150 x 4.6 mm I.D.)
Column Cat. No. : 5020-03945
Eluent : Buffer*
Flow Rate : 1.0 mL/min
Col. Temp. : 40 ℃
Detection : UV 220 nm (UV7750 UV Detector)
Injection Vol. : 10 μL
Sample : Standard

*Dissolve 2.95 g of trisodium citrate dihydrate in 900 mL of water.
Adjust to pH 3.5 with diluted hydrochloric acid.
Add water to make 1,000 mL.(Solution A)
Add 700 mL of CH_3OH to 300 mL of solution A.(Solution B)
Add 1.0 g of sodium dodecyl sulfate to Solution B.

Analyte

1. Haloperidol

The peal area ratio of 1-a to 1-b	: (15 ≦) 20.0 (≦ 25)
Theoretical plates of 1-b	: 9,176 (≧ 4,000)
Tailing factor of 1-b	: 1.06 (≦ 2.0)
RSD of the 1-b area (%)(n=6)	: 0.55 (≦ 2.0)