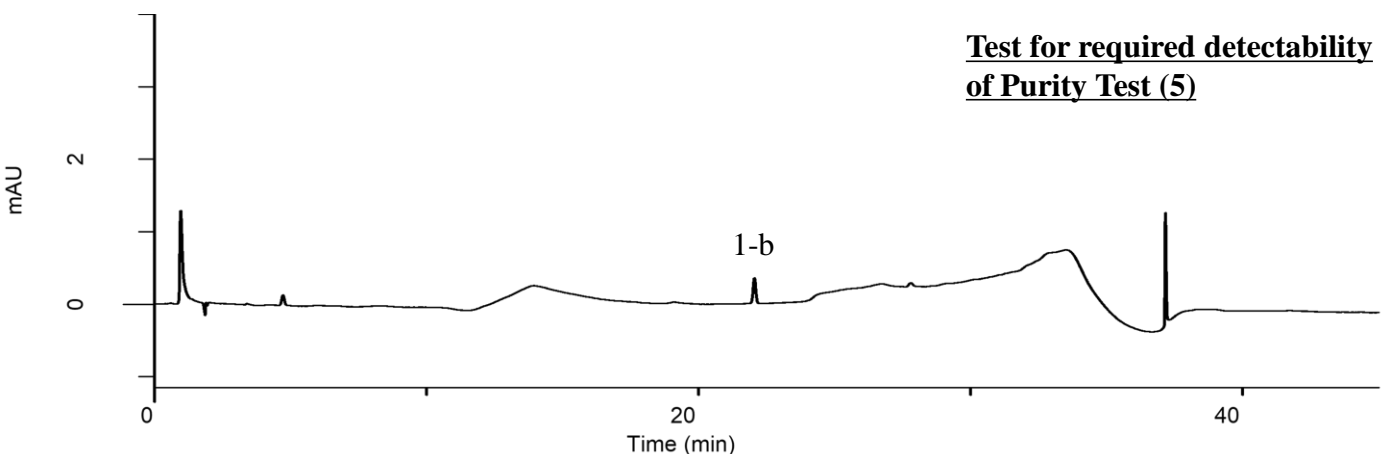
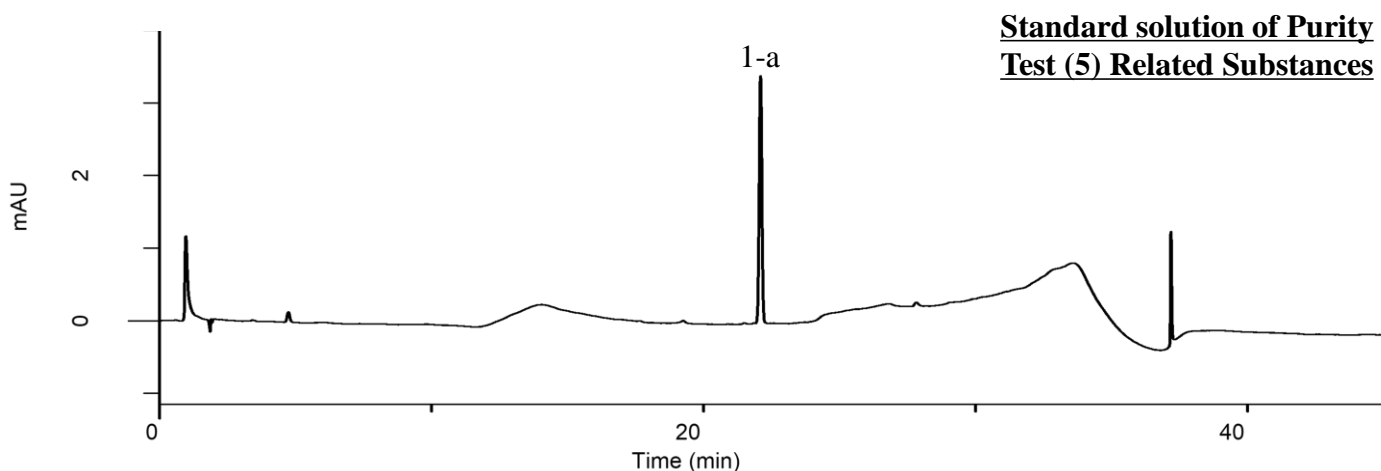


Analysis of Dexamethasone Sodium Phosphate

(Under the Condition of the draft for the Japanese Pharmacopoeia,
Dexamethasone Sodium Phosphate)



Conditions

System : GL7700 HPLC system
Column : Inertsil ODS-4 (5 μ m, 150 x 3.9 mm I.D.)
Column Cat. No. : 5020-87023
Eluent : A) CH₃CN
 B) Buffer*

Time(min)	A(vol%)	B(vol%)
0	12	88
8	20	80
15	20	80
30	40	60
31	12	88
45	12	88

Flow rate : 1.0 mL/min
Col. Temp. : 25 °C
Detection : UV 242 nm (UV7750 UV Detector)
Injection Vol. : 15 μ L
Sample : Standard

* Dissolve 7.8 g of NaH₂PO₄ and 1.88 g of sodium 1-hexanesulfonate in 1900 mL of water. Adjust to pH 3.0 with H₃PO₄, and make up to 2000 mL by adding water.

Analyte:

1. Dexamethasone Phosphate
 4 mg/L (1-a) or 0.4 mg/L (1-b)

Theoretical plates (1-a) : 22,475 (\geq 10,000)
 Symmetry factor (1-a) : 1.01 (\leq 2.0)

The peak area ratio of 1-b to 1-a (%)
 : (7 \leq) 10.1 (\leq 13)

RSD of the peak area of 1-a (%) (n=6)
 : 0.29 (\leq 1.0)