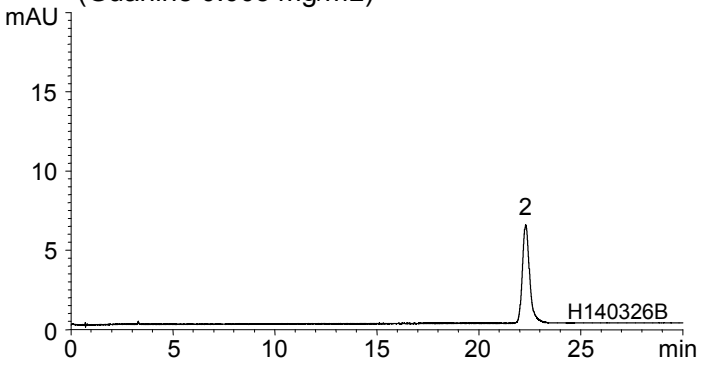
HPLC DATA SHEET

アシクロビル (日本薬局方記載条件)
Aciclovir (The Japanese Pharmacopoeia)

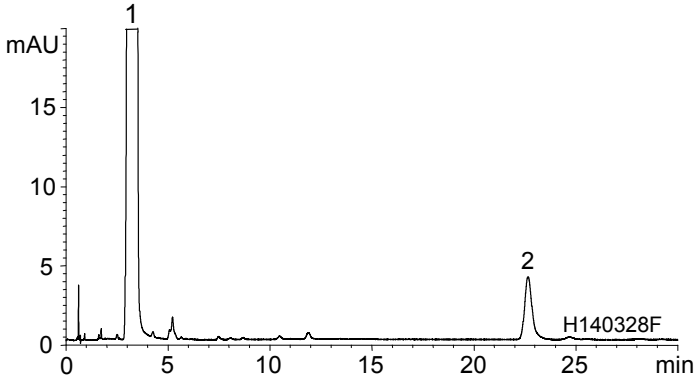
H140429A

(A) Related substances : Standard solution[*1]
(Guanine 0.005 mg/mL)

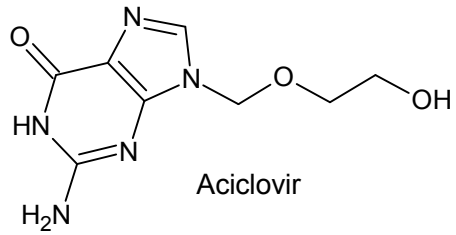


	System suitability requirement	Result
Relative standard deviation of the peak area (Guanine)	≦2.0%	1.87%
Relative standard deviation of the peak area (Aciclovir)	≦1.0%	0.10%
Resolution (1,2)	≧17	42.3

(B) Assay: Standard solution[*1]
(Aciclovir 1.0 mg/mL)

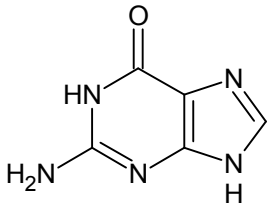


1



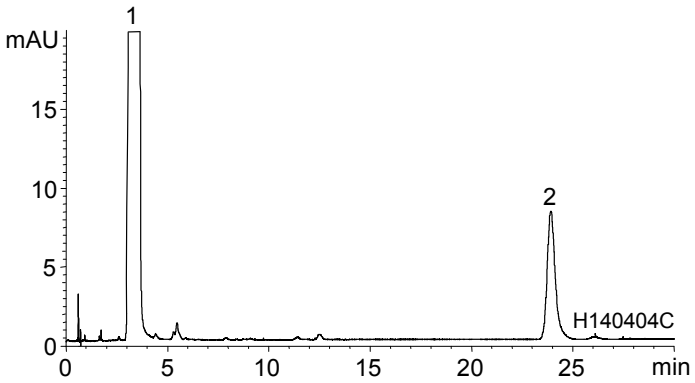
Aciclovir

2



Guanine

(C) Assay: System suitability solution[*1]
(Aciclovir 1.0 mg/mL, Guanine 0.005 mg/mL)



Column	: Meteoric Core C18 BIO (2.7 µm, 16 nm) 100 X 4.6 mmI.D.
Eluent	: phosphate buffer containg 1-decansulfonic acid sodium salt[*2]/acetonitrile (1000/40) [*2]*Dissolve 1.0 g of containg 1-decansulfonic acid sodium salt and 6.0 g of $NaH_2PO_4 \cdot 2H_2O$ in 1000 mL of water, adjust pH 3.0 with H_3PO_4*
Flow rate	: 1.4 mL/min *(adjust the flow rate so that the retention time of aciclovir is about 3 min)*
Temperature	: 20℃
Detection	: UV at 254 nm
Injection	: 10 µL
Pressure	: 26.5 MPa (3840 psi)

(The Japanese Pharmacopoeia 16 th; Related substances, Assay)

[*1] All solutions were prepared from aciclovir and guanine supplied as a reagent for laboratory use.