

Analysis of sulfadimidine

The permissible level of sulfadimidine, a veterinary antibacterial agent, residual in foodstuffs and the analytical methods used to determine it, are controlled according to food hygiene laws 1,2.

The structure of sulfadimidine is shown in Fig. 1.

Following the official method, the chromatogram from the analysis of a standard sample of sulfadimidine is shown in Fig. 2 and the absorption spectrum by photodiode array, in Fig. 3.

Conditions:

Column:	CrestPak C18S
Eluent:	CH ₃ CN/25mM NaH ₂ PO ₄ (15/85)
Wavelength:	268nm(UV-970) 200 to 350nm(PDA)
Flow rate:	0.8mL/min
Column temperature:	40 degree celsius
Sample:	STD (1ppm)
Injection volume:	20uL

Keywords: 1. sulfadimidine, 2. STD, 3. ODS, 4. UV-MD, 5. official method

< References >

- 1 Ministry of public welfare ordinance 34 (28th March 1997)
- 2 Ministry of public welfare ordinance 73 (28th March 1997)

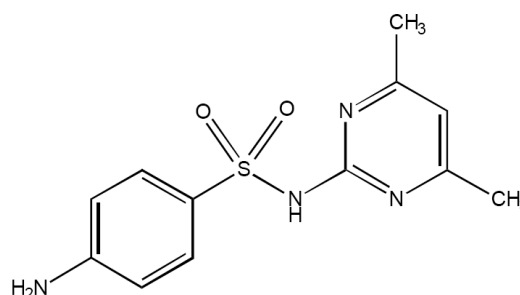


Fig. 1 Structure of sulfadimidine

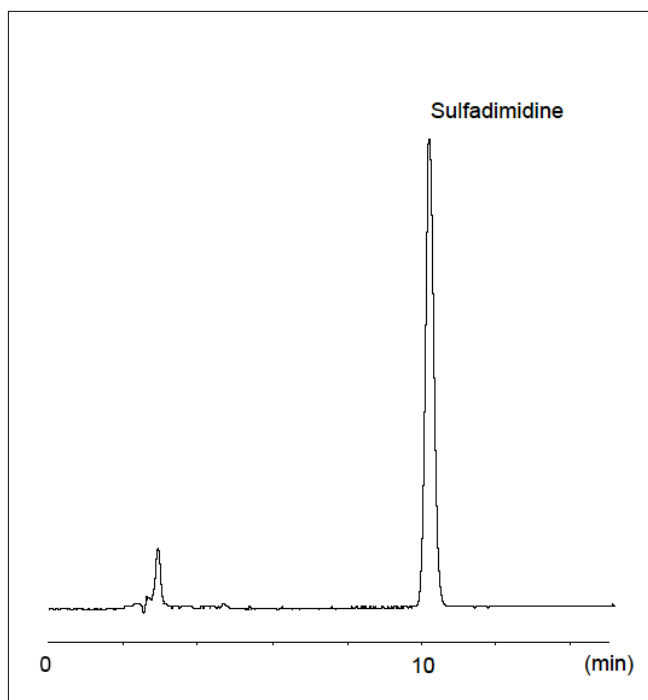


Fig.2 Chromatogram of 1 ppm sulfadimidine standard sample

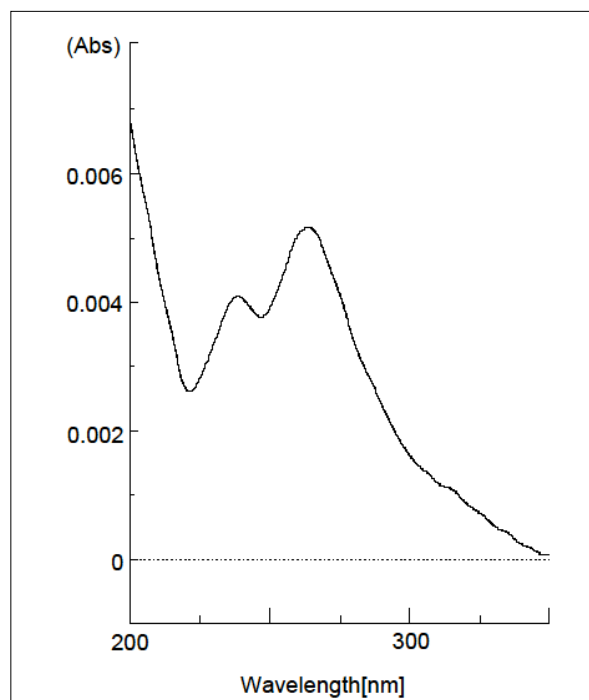


Fig. 3 UV spectrum of sulfadimidine