Spiramycin, which is a macrolide antibiotic, has a remarkable antibacterial effect on Gram-positive bacteria and mycoplasma. In this note, an analytical method for the determination of spiramycin in beef sample was shown. High recovery rate was obtained by using an SPE (solid phase extraction) cartridge InertSep PRS, which has sulfonylpropyl functional group, before HPLC analysis. (R.Hirano)

Chromatogram Obtained from Standard Solution



Standard-added Beef Sample

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2

mAU

Concentration of spiramycin and neospiramycin was adjusted to 2.0 mg/L by adding standard solution to beef sample. Sample pretreatment shown at right was carried out, and obtained solution was analyzed by HPLC.

1

An Example of Sample Pretreatment



Autosampler equipped with sample cooler was used because the two compounds can be decomposed at room temperature. Further information can be found at LC technical note No.7.

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De Sleutel 9

2

8

Time (min)

The HPLC column used in this note; InertSustain

6

4

Recovery rate

Neospiramycin I Spiramycin I

C18 (5 µm, 4.6 x 150 mm)

Cat.No. 5020-07345

The SPE catridge used in this note; InertSep PRS 500 mg/6 mL 30/pk Cat.No. 5010-61524

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