

For LabSolutions™ LCMS

LC/MS/MS Method Package for Veterinary Drugs Ver. 2

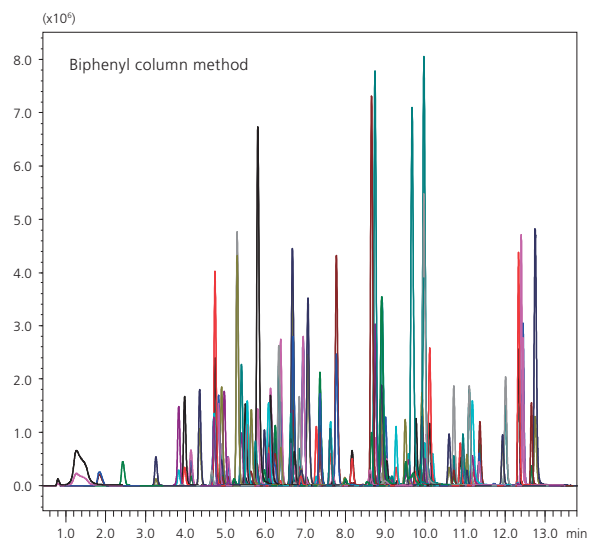
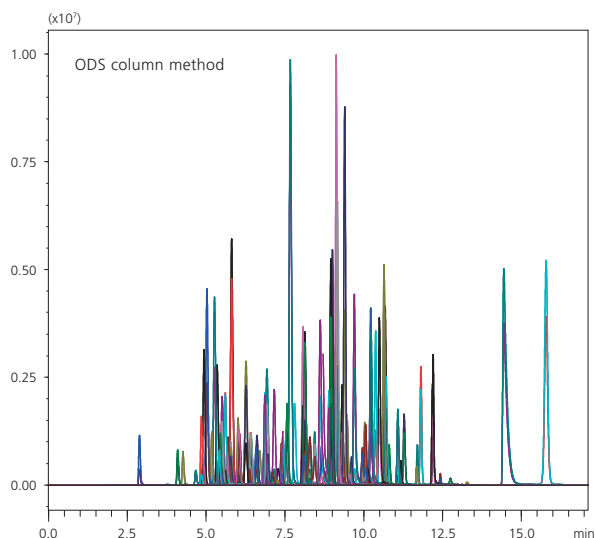
- Method package including 129 veterinary drug compounds, more than 3 times as many as Ver. 1
- High-speed method with just 16.5 mins detection time
- Pretreatment program to improve the peak shape for polar veterinary drug compounds
- Data analysis is made simple with LabSolutions Insight™



Simultaneous analysis of 129 veterinary drug compounds in just 16.5 minutes

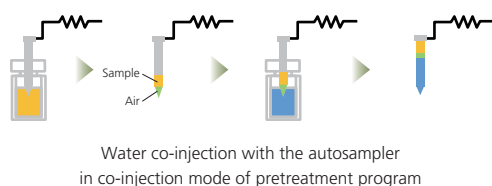
The rapid increase in world population in recent years has led to concerns about providing stable and safe food resources in a timely manner. Veterinary drugs are indispensable tools for sustainable food supply through their role in disease prevention and treatment in livestock and fish farming. However, due to the possibility of these drugs being ingested in turn by humans, it is of great importance that their safety be investigated thoroughly.

This method package provides a high-speed method for the detection of 129 veterinary drug compounds in just 16.5 minutes. The number of compounds has been greatly increased from Ver. 1. Methods are provided for both ODS and biphenyl columns, so the appropriate method can be selected according to column type.



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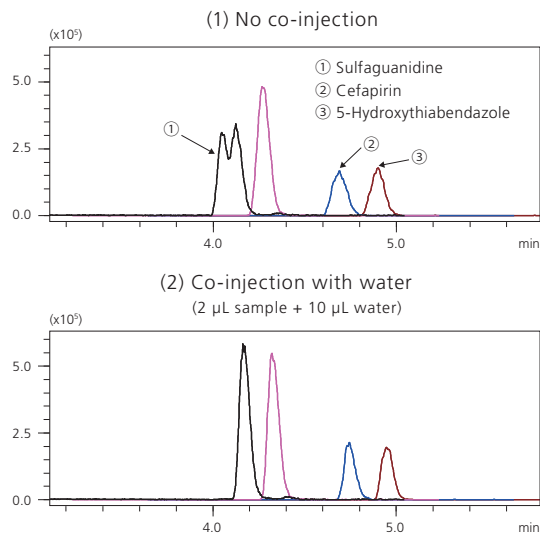
Improve peak shape for polar compounds with co-injection



Samples prepared using pretreatment methods such as QuEChERS are extracted with a high organic solvent ratio. Depending on the analysis conditions, the peak shape of polar compounds with a short retention time may become irregular as in graph (1).

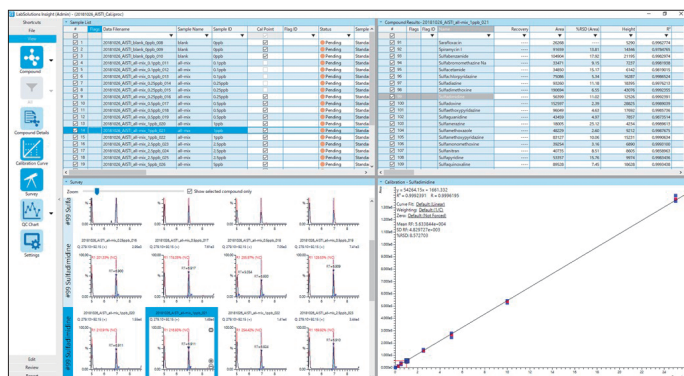
Because a pretreatment program for co-injection is incorporated into the simultaneous analysis method, it is easy to carry out co-injection with water to improve peak shape, as shown in graph (2).

Note: Please use the autosampler that supports the pretreatment program.



MRM chromatograms for veterinary drugs showing improved peak shapes from co-injection (sample injection vol. 2 µL)

Smooth analysis of multiple samples with LabSolutions Insight



LabSolutions Insight software can handle all data analysis for multiple compounds and samples. Data analysis is fully incorporated into this method package, which provides smooth and continuous data processing from measurement through to report creation.

LabSolutions Insight includes quantitative analysis and screening functions. In the analysis window, data is displayed for each target compound and data set. You can easily select whether to show quantitative values and/or area values according to your workflow.

Results exceeding specified values can be flagged, allowing for easier checking of compliance with regulations over a large number of samples and improving throughput.

Remarks and Precautions

LabSolutions LCMS Ver. 5.99SP2 or later and LabSolutions Insight Ver. 3.7SP3 or later are required.

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