

# Food Method

## Antibiotic analysis in food

### Elevate your food testing with the X500R QTOF System

Method details and access to HR-MS/MS libraries to detect, quantify, and confirm antibiotic vet drugs in tissue extracts using HPLC coupled with the X500R QTOF system, powered by SCIEX OS Software..

### Sample Prep

Step 1

- 1g Tissue homogenized with 10mL extraction solvent (1:5) Water Acetonitrile

Step 2

- Vortex, shake vigorously for 5 minutes, centrifuge (5000rpm, 5 minutes)

Step 3

- Decant supernatant to 15mL tube & add 500mg C18 sorbent.

Step 4

- Vortex, shake 30 sec, centrifuge (5000rpm, 1 minute).

Step 5

- Collect 5mL aliquot of extract and reduce in volume to <1mL.

Step 6

- Bring to final volume of 1mL w/water and filter for analysis

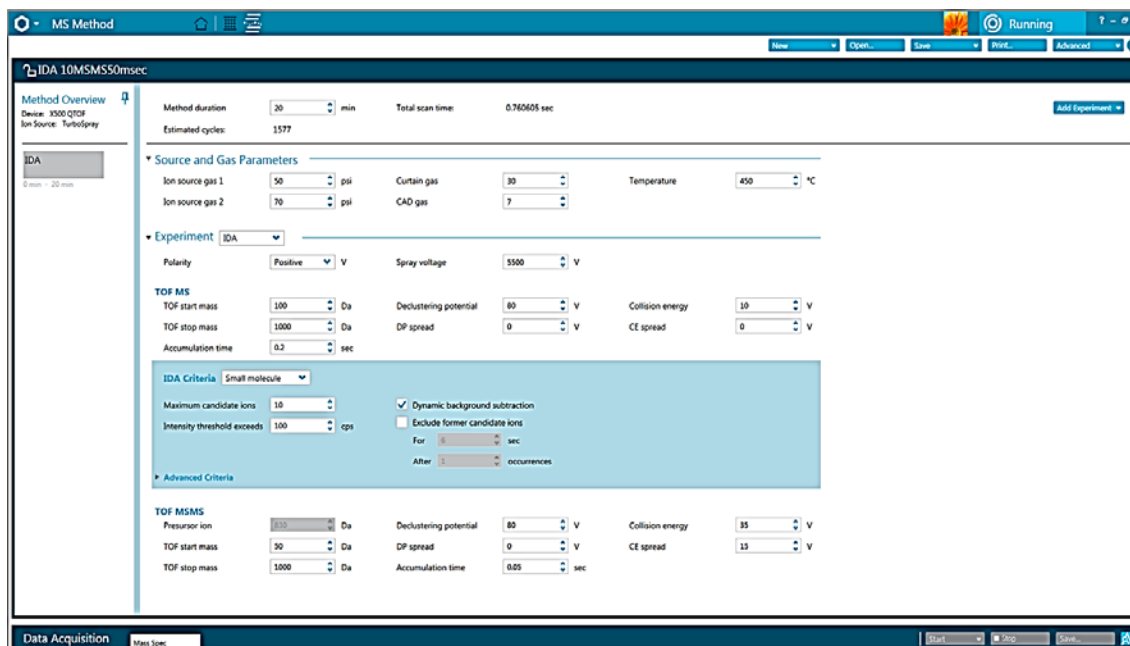


### LC Method

<i>Column</i>	Phenomenex Gemini 3µm C18 110Å column, 50 x 2.0mm	
<i>Mobile Phase A</i>	0.1% formic acid in water	
<i>Mobile Phase B</i>	0.1% formic acid in methanol	
<i>Flow rate</i>	0.5 mL/min	
<i>Column temperature</i>	40°C	
<i>Injection volume</i>	10 µL	
<i>Gradient profile</i>	<b>Time (min)</b>	<b>% B</b>
	0	2
	0.3	2
	7.27	80
	7.37	99
	10.9	99
	11	2
	15	2

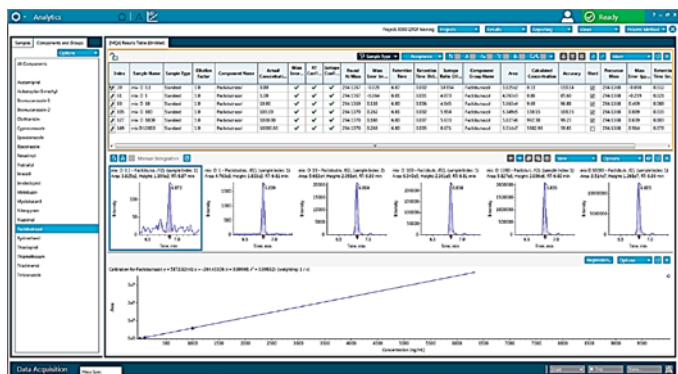
Sample prep protocol adopted from:  
Mastovska & Lightfield, J. Chrom. A., 2008, 1202, 118-123

# MS Method



Suggested IDA (Information Dependent Acquisition) conditions for routine food contaminant testing as displayed in SCIEX OS.

## Data Processing



Review your results with utmost efficiency using SCIEX OS for simultaneous quantitation and MS/MS library confirmation.

## X500R High Resolution Libraries

Download the XIC List

Download a FREE Trial of the MS/MS Library

Download a free XIC compound list detailing a full list of antibiotic compounds including molecular formula and accurate mass.

Download a free trial of the antibiotic high resolution MS/MS library, containing 244 compounds.

[Learn more at sciex.com/X-Antibiotics.](http://sciex.com/X-Antibiotics)