To meet the strict limits of veterinary drugs in meats, labs must be able to quantify trace-level veterinary drug residues—and positively confirm their identities.

Based on its selectivity and sensitivity, triple quadrupole LC/MS is considered the “gold standard” for veterinary drug testing in a variety of complex matrices; however, method development can be difficult and time consuming.

**Minimize the need for tedious method development with a database of MRM transitions**

You can instantly build targeted screening and quantitation methods for a few—or hundreds—of veterinary drugs in a single run by combining the Agilent Veterinary Drug tMRM Database with Agilent Triple Quadrupole LC/MS systems.

The database contains hundreds of triple quadrupole LC/MS transition parameters, allowing you to create MRM, dynamic MRM (dMRM), or triggered MRM (tMRM) methods, based on your analytical needs.
COMBINING THE AGILENT VETERINARY DRUG tMRM DATABASE WITH THE HIGH SENSITIVITY AND ACCURATE QUANTITATION OF TRIPLE QUADRUPOLE LC/MS INSTRUMENTS ENABLES YOU TO:

- **Easily create an MRM method** by importing settings like compound names, primary MRM transitions, fragmentor voltages, and collision energies. MRM methods are ideal for fast screening and quantitation of a limited number of veterinary drugs without the need to know retention times.

- **Evaluate retention times and retention time windows** to update MRM methods to dMRM methods. dMRM increases sensitivity by maximizing dwell time for analytes within their time window. It is appropriate for screening and quantitation of hundreds of veterinary drugs within one run.

- **For additional specificity, you can create a tMRM method** by adding secondary transitions to a dMRM method. tMRM is particularly beneficial for isobaric compounds, and compounds affected by matrix interference. Additionally, tMRM is compatible with fast cycle times, so you can apply it to a subset of problematic compounds—or to all compounds in a multi-residue screen.

- **Create a reference library from your data** specific to your analysis and confirm results with a library match to confidently assess borderline results.

The Agilent Veterinary Drug tMRM database ensures fast, customized method development and can be easily expanded, or have subset databases created.
MAXIMIZE YOUR DATA QUALITY WITH DATABASE AND REFERENCE LIBRARY CURATION

Curated databases—each entry is reviewed for correctness, and includes:

- Compound common name
- CAS number of the native compound
- Molecular formula
- Unit mass of the neutral molecule
- MRM transitions (precursor and product m/z)
- Fragmentor voltage
- Collision energy
- Added retention times and retention time windows
- Added trigger parameters

MRM transition curation:

- MRM transitions are optimized using the Agilent MassHunter Optimizer software
- Optimized MRM data are reviewed for correctness
- Compounds include: Insecticides, beta-agonists, antibiotics, anti-inflammatories, anti-psychotics, tetracyclines, dyes, anti-parasitics, pesticides, sedatives, herbicides, fungicides, equine drugs

Application consulting lets you focus on what you do best

Installation and familiarization (optional):
Experienced service personnel will install the tMRM database, verify all functions with an Agilent checkout sample, and familiarize you with the supporting software.

Advanced application consulting (optional):
Let us help you get the most out of your tMRM database and reference library by setting up targeted screening methods for your samples of interest.

Learn how to meet—or exceed—global detection limits.
Visit www.agilent.com/chem/application-kits
Complete your targeted veterinary drug analysis workflow

MassHunter data acquisition and analysis software
Together with the tMRM database and reference library, this powerful software lets you quickly generate acquisition and analysis methods, which can be modified easily to meet your needs. In MassHunter Quantitative Analysis Software, you can use batch processing to flag outliers, and view compounds at a glance to review by exception.

Agilent 1290 Infinity II LC and Agilent 6400 Series Triple Quadrupole LC/MS systems
Proven choices for quantitative applications give you unmatched separation performance, superior sensitivity, renowned reliability, and overall robustness. The Agilent Jet Stream electrospray ion source dramatically lowers your detection limits.

Agilent LC columns, supplies, and sample prep products
Increase your uptime and achieve the best scientific outcomes.

Ordering Information:

<table>
<thead>
<tr>
<th>Veterinary Drug tMRM Database and Reference Library (G1735CA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required but not included with the Veterinary Drug tMRM Database:</td>
</tr>
<tr>
<td>Agilent 1260 or 1290 Infinity II LC</td>
</tr>
<tr>
<td>Agilent 6400 Series Triple Quadrupole LC/MS System</td>
</tr>
<tr>
<td>Agilent MassHunter Acquisition Software (B.06 or higher) and Windows 7 (64-Bit)</td>
</tr>
<tr>
<td>Agilent MassHunter Qualitative Analysis Software (B.06 or higher)</td>
</tr>
<tr>
<td>Agilent MassHunter Quantitative Analysis Software (B.05.02 or higher)</td>
</tr>
<tr>
<td>OPTIONAL: G1733CA #001 Installation and Familiarization Service</td>
</tr>
<tr>
<td>OPTIONAL: Advanced Application Consulting</td>
</tr>
<tr>
<td>H2149A (Americas), R1736A (other regions)</td>
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</tbody>
</table>

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