A Fast and Sensitive LC/MS/MS Method for the Measurement of PPCP Compounds in Water

Need a sensitive, dependable, flexible, and robust method for the routine determination of PPCP compounds in drinking, ambient, and waste water?

The presence of Pharmaceutical and Personal Care Product compounds in drinking water has become an area of immense public concern and research by water suppliers, regulatory agencies, and engineering firms. Agilent is very aware of these challenges and not only provides the most sensitive system for these answers, but also has developed an excellent analytical method in collaboration with leading researchers in the field. This method has been developed for over 30 (figure 1) of the most recognized PPCP compounds and will have you up and running and collecting reliable data quickly.

Agilent’s 1290 UHPLC and 6460 Triple Quadrupole Mass Spectrometer delivers excellent sensitivity for Pharmaceutical and personal care product compounds from water. This performance is leveraged by Agilent’s industry proven reliability and robustness for utmost productivity. With the use of the 6460’s Jet Stream ESI Technology, this system provides the ideal LC/MS/MS platform for your samples (figure 2, 3).

Industry leading MassHunter software enables a sample workflow for the routine and precise quantitation of PPCP compounds. Calibration curves, QCs, and sample data can be quickly assessed for linearity and accuracy. Processed data can be viewed in a variety of user-defined formats or exported directly into a LIMS.

Key Benefits

• Agilent 6460 Triple Quad technology is the most sensitive available for PPCP analysis.
• Agilent method with standard operating procedure will have you analyzing the lowest possible levels of PPCP compounds quickly.
• Method includes over 30 of the most common PPCP compounds as well as compounds of current interest like BPA.
• MassHunter software is very powerful and easy to master, providing excellent data review features and easy, flexible data exporting.
• Flexible system configuration will deliver excellent results for other environmental applications such as acid herbicides, perfluorinated compounds (PFOS/ PFOA) and pesticides.
• Agilent is your trusted partner in environmental testing.

Our measure is your success.
<table>
<thead>
<tr>
<th>Compound</th>
<th>Drug Type</th>
<th>LOD Jetstream 6460 (µg/L)</th>
<th>Method LOQ</th>
<th>LOD Jetstream 6460 (µg/L)</th>
<th>Method LOQ</th>
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Figure 1: Compound list from the method with limits of detection

Figure 2: The 10 ppb positive ion standard

Figure 3: Actual river water sample from the mid-western United States

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