

CoreFocus Report

No.562

LC-MS

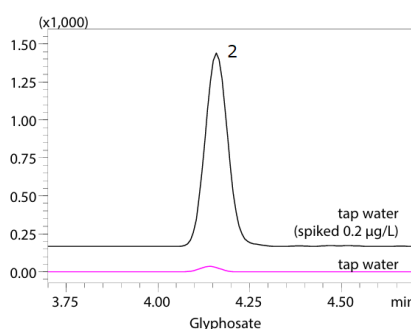
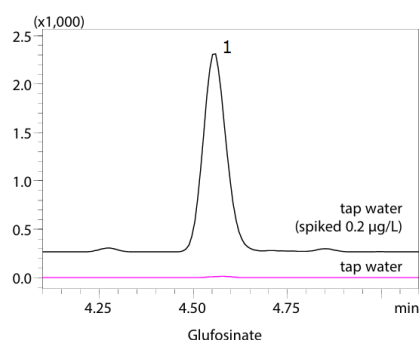
Reversed-phase

Mastro2 Series

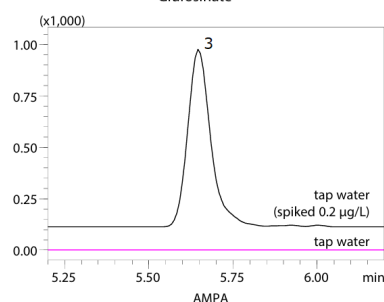
Mastro2 C18

Analysis of Glufosinate, Glyphosate, and AMPA in Tap Water

Keywords: amino-based herbicide, foliage-applied herbicide, pesticide



1. Glufosinate
2. Glyphosate
3. AMPA



[HPLC conditions] (Nexera™ X3)

Column : Mastro2 C18,
100 mm x 2.0 mm I.D., 3 µm⁺
Mobile phases : A) 5 mmol/L Ammonium acetate in H₂O
B) Acetonitrile
Gradient Program : B 5 % (0 min) - 50 % (7.00 min) - 95 %
(7.01 - 11.00 min) - 5 % (11.01 - 13 min)
Flow rate : 0.25 mL/min
Column temp. : 40 °C
Injection vol. : 20 µL

1*: P/N: 370-01005-64

[MS conditions] (LCMS-8050)

Ionization : ESI (Negative mode)
Probe voltage : -3 kV
Nebulizing gas flow : 2 L/min
Drying gas flow : 10 L/min
Heating gas flow : 10 L/min
DL temp. : 150 °C
Heat block temp. : 400 °C
Interface temp. : 300 °C
MRM transition (m/z) : Glufosinate m/z 402.10 > 180.10
Glyphosate m/z 390.05 > 168.05
AMPA m/z 332.05 > 110.05

Source : Application News 01-00106 ([JP,ENG](#))

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