

# HPLC Application

ID No.: 22749

## FMOC derivatized glyphosate on a Gemini 3 $\mu$ m NX-C18

**Column:** Gemini<sup>®</sup> 3  $\mu$ m NX-C18 110 Å, LC Column 50 x 2 mm, Ea

**Dimensions:** 50 x 2 mm ID

**Order No:** 00B-4453-B0

**Elution Type:** Gradient

**Eluent A:** 5 mM Ammonium bicarbonate pH 9

**Eluent B:** ACN/Methanol (50:50)

Gradient Profile:	Step No.	Time (min)	Pct A	Pct B
	1	0	80	20
	2	4	10	90
	3	4.1	80	20
	4	7	80	20

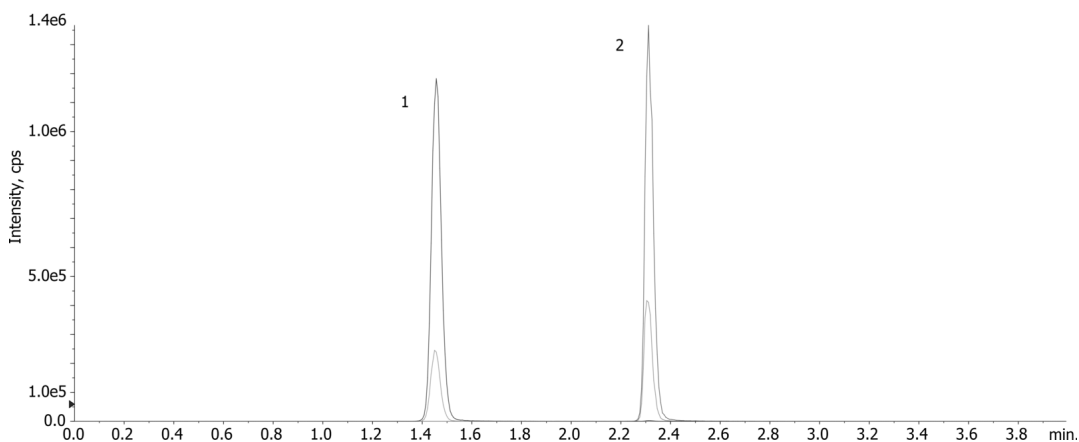
**Flow Rate:** 0.4 mL/min

**Col. Temp.:** ambient

**Detection:** Tandem Mass Spec (MS-MS) @ (ambient)

**Detector Info:** API 5000

**Analyst Note:** Derivatization protocol: In a 2 mL vial, spike 50  $\mu$ L of 10  $\mu$ g/mL Glyphosate and AMPA standards into 1 mL of 0.4 M borate buffer. Add 200  $\mu$ L of 2 mg/mL FMOC in acetone (make fresh daily) and vortex.



### ANALYTES:

**1** Glyphosate

Retention Time: 1.44 min

**2** 2-Aminoethylphosphonic acid (AMPA)

Retention Time: 2.32 min



Products used in this application:

