# HPLC Application

ID No.: **22749**

## FMOC derivatized glyphosate on a Gemini 3 µm NX-C18

**Column:** Gemini® 3 µm 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 |

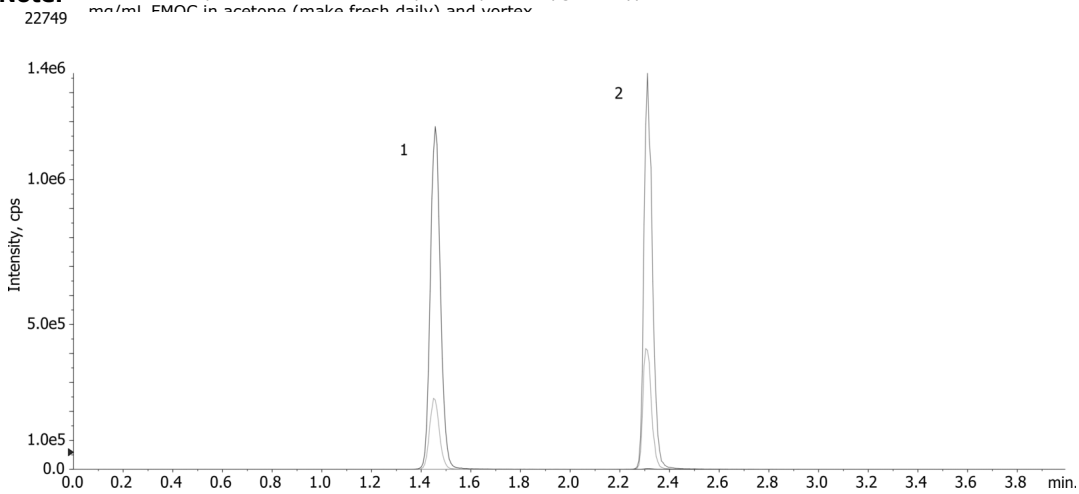
**Flow Rate:** 0.4 mL/min
**Col. Temp.:** ambient
**Detection:** Tandem Mass Spec (MS-MS) @ (ambient)
**Detector Info:** API 5000

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

**Products used in this application:**








## ANALYTES:

**1** Glyphosate
Retention Time: 1.44 min

**2** 2-Aminoethylphosphonic acid (AMPA)
Retention Time: 2.32 min



For more information contact your Phenomenex Representative at support@phenomenex.com

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