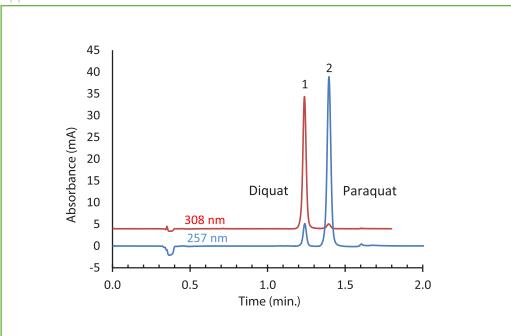
# ENVIRONMENTAL

HALO

## Separation of Nonselective Herbicides on HALO<sup>®</sup> Phenyl-Hexyl, 5 µm

Application Note 131-P



### **PEAK IDENTITIES:**

- 1. Diquat dibromide
- 2. Paraquat dichloride

The herbicides paraquat and diquat may be separated rapidly in under 2 minutes using a HALO<sup>®</sup> 5  $\mu$ m Phenyl-Hexyl HPLC column. Large injection volumes are required to achieve the desired sensitivity. The separation conditions are based on the EPA method 549.2.

#### **TEST CONDITIONS:**

#### **STRUCTURES:**

Column: HALO 90 Å Phenyl-Hexyl, 5 µm 3.0 x 100 mm Part Number: 95813-606 Mobile Phase: 13.5 mL orthophosphoric acid, 10.3 mL diethylamine and 3.0 g of hexanesulfonic acid, sodium salt in 1 L of water J<sup>±</sup>−CH<sub>3</sub> Flow Rate: 1.0 mL/min Cl Pressure: 156 bar Br Br Temperature: 30 °C Detection: UV 257, 308 nm, VWD **Diquat Dibromide** Paraquat Dichloride Injection Volume: 40 µL Sample Solvent: Water Response Time: 0.02 sec Flow Cell: 2.5 µL semi-micro LC System: Shimadzu Prominence UFLC XR Extra Column Volume: ~14 µL

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