

DETERMINATION OF AMINOPYRALID, CLOPYRALID AND PICLORAM IN COMPOST AND WATER

Efficient clean-up and enrichment



Loading solution

Elution solution

PROTOCOL OF PURIFICATION

Sample preparation for compost
5g of compost sample and 100mL water are shaken during 60minutes. Centrifuge at 3000g for 10min and then filter the solution with a 4-7µm filter. This solution is used as the loading solution.

Purification with a 3mL/60mg AFFINIMIP® SPE Picolinic Herbicides cartridge

Equilibration

- 2mL Acetonitrile
- 1mL Water

Loading

- 3mL of loading solution

Washing of interferents (W1)

- 1mL Water

Drying by applying vacuum 1 min

Washing of interferents (W2)

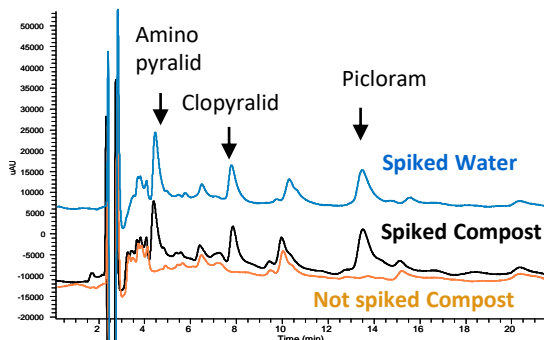
- 1mL Acetonitrile

Elution (E)

- 3mL 98/2 Ethyl acetate / Trifluoroacetic acid

The elution fraction was then evaporated and dissolved in the mobile phase before HPLC analysis.

RESULTS



UV chromatogram of compost or water spiked with Aminopyralid, Picloram and Clopyralid after AFFINIMIP®SPE Picolinic Herbicides clean-up

Recovery and repeatability of Picloram, Aminopyralid and Clopyralid in compost (n=3) and after AFFINIMIP® SPE Picolinic Herbicides Clean-up.

Analytes	Recoveries % for Water	Recoveries % for Compost	% RSDr compost
Aminopyralid	95	84	3
Clopyralid	109	120	4
Picloram	88	89	3

Catalog number:

3mL-60mg sorbent

FS115-02 for 25 cartridges

FS115-03 for 50 cartridges

6mL-100mg sorbent

FS115-02B for 25 cartridges

FS115-03B for 50 cartridges