

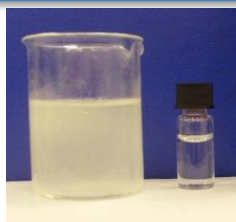
PROTOCOL OF PURIFICATION

Sample preparation

25g of meat are mixed during 2 minutes with 100mL of a solution of deionized water/ acetonitrile (50/50). Then the mixture is filtered through filter paper (4-7 μ m). This solution was then diluted 10 times with deionized water to obtain the loading solution used for the clean-up protocol



Loading



Elution



AFFINIMIP® SPE DEOXYNIVALENOL

Purification with a 6mL/100mg AFFINIMIP® SPE DEOXYNIVALENOL cartridge

Equilibration

- 2mL Acetonitrile
- 2mL Water

Loading solution

Up to 6mL of loading solution

Washing of interferences

- 3mL NaHCO₃ 1% solution

Drying 30s

Washing of interferences

- 1mL Diethyl Ether

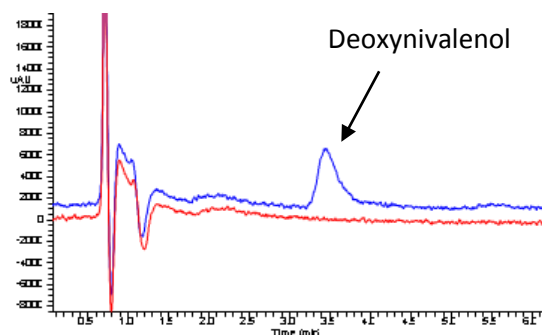
Elution (E)

4mL Ethyl Acetate

The elution fraction was then concentrated and diluted to mobile phase before HPLC analysis.

Recovery for DON > 90%*

*Tested at 8000 μ g/kg



UV Chromatograms (220nm) obtained after clean-up of MEAT with AFFINIMIP® SPE DEOXYNIVALENOL.

- Blue trace for spiked with 8000 μ g/kg of DEOXYNIVALENOL
- Red trace for the blank sample

HPLC Method with LC-MS

HPLC Column: Hypersil gold column (50mm x 2.1mm)
Mobile phase: 95/5 0,1 Formic acid in water / Acetonitrile
Flow rate: 0.2mL/min
Injection volume: 20 μ L.

Ordering information - Catalog number:

FS117-02B for 25 cartridges, 6mL
FS117-03B for 50 cartridges, 6mL

AFFINIMIP® SPE ZEARELENONE

Purification with a 3mL/100mg AFFINIMIP® SPE ZEARELENONE cartridge

Equilibration

- 2mL Acetonitrile
- 2mL Water

Loading solution

Up to 6mL of loading solution

Washing of interferences

- 6mL 40/60 Acetonitrile/deionized Water

Drying 3-5min

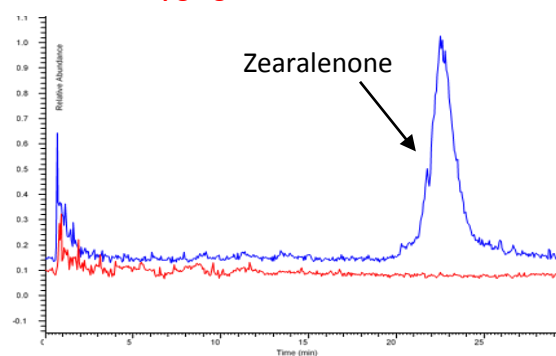
Elution (E)

2mL 2/98 Acetic Acid/Methanol

The elution fraction was then concentrated and diluted to mobile phase before HPLC analysis.

Recovery for ZON > 80%*

* Tested at 960 μ g/kg



SIM Chromatograms obtained after clean-up of MEAT with AFFINIMIP® SPE ZEARELENONE.

- Blue trace for spiked with 960 μ g/kg of ZEARELENONE
- Red trace for the blank sample

HPLC Method with LC-MS

HPLC Column: Hypersil gold column (50mm x 2.1mm)
Mobile phase: 73/27 0,1 Formic acid in water / Acetonitrile
Flow rate: 0.2mL/min
Injection volume: 20 μ L.

Ordering information - Catalog number:

FS100-02 for 25 cartridges, 3mL
FS100-03 for 50 cartridges, 3mL