

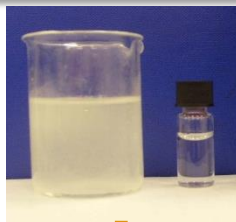
## PROTOCOL OF PURIFICATION

### 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 $\mu$ 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 NaHCO<sub>3</sub> 1% solution

#### Drying 30s

#### Washing of interferences

- 1mL Diethyl Ether

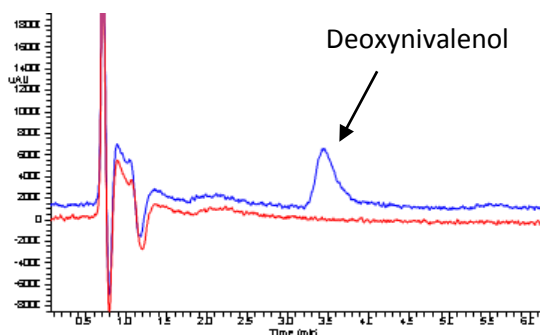
#### Elution (E)

4mL Ethyl Acetate

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

## Recovery for DON > 90%\*

\*Tested at 8000 $\mu$ g/kg



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

- Blue trace for spiked with 8000 $\mu$ 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 $\mu$ L.

#### Ordering information - Catalog number:

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

### AFFINIMIP® SPE ZEARALENONE

Purification with a 3mL/100mg AFFINIMIP® SPE ZEARALENONE 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

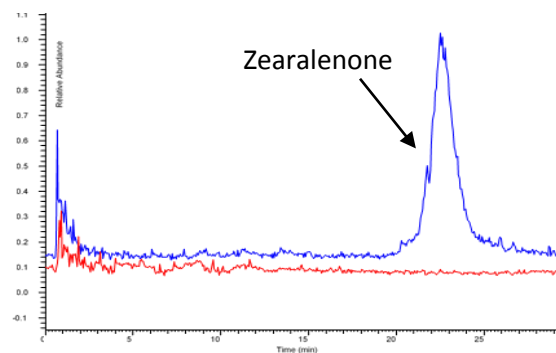
#### Elution (E)

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 $\mu$ g/kg



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

- Blue trace for spiked with 960 $\mu$ g/kg of ZEARALENONE
- 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 $\mu$ L.

#### Ordering information - Catalog number:

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