

DETERMINATION OF PATULIN IN BLUEBERRY JUICE

PROTOCOL OF PURIFICATION

Sample preparation

5mL Blueberry juice is diluted with 5mL water containing 2% of acetic acid to obtain the loading solution.

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

Equilibration

- 2mL Acetonitrile
- 1mL Water

Loading

- 4mL of loading solution

Washing of interferents (W1)

- 1mL NaHCO₃ 1% in Water
- 2mL Water

Drying by applying vacuum 10 seconds

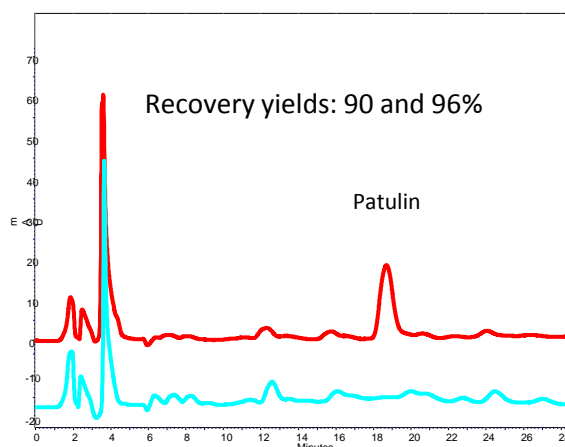
Washing of interferents (W2)

- 500µL Diethyl Ether

Elution (E)

- 2mL Ethyl Acetate

The elution fraction was then evaporated and dissolved in water containing 0.1% acetic acid before HPLC analysis.



Chromatograms obtained after AFFINIMIP® SPE Patulin Clean-up of Blueberry juice spiked at 40µg/L with Patulin (red) or not spiked (light blue).

HPLC Method

Column: Atlantis T3 column, 150mm x 2.1mm

Mobile phase: gradient profile

Time (min)	% water	% ACN
0	98	2
20	98	2
21	50	50
25	50	50
26	98	2

) Flow rate: 0.2mL/min
 Detection: UV - 276nm
 Injection volume: 100µL.

Catalog number:

3mL-100mg sorbent

FS102-02 for 25 cartridges

FS102-03 for 50 cartridges

FS102-02K for a kit of 25 cartridges + 50mL

Pectinase

FS102-03K for a kit of 50 cartridges + 50mL

Pectinase

REA-001-50mL for 50mL Pectinase solution