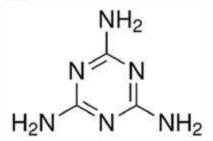
Food Safety: Melamine in Milk

Application Note: SCX10001

Agility SCX SPE Cartridges

Compound: Melamine



SPE EXTRACTION METHOD:

(SCX extraction cartridge) (catalog # SYSCX 200, 200 mg/3mL)

Pretreat milk:

0.5mL milk (10 µg/mL of melamine)
mixed with 0.5mL of acetonitrile.

Centrifuge, add 3 mL of 0.1% formic acid to supernatant.

Condition:

3mL of methanol, followed by 3mL of 0.1% formic acid

Load:

pretreated milk supernatant.

Wash:

3mL of 0.1% formic acid, and 3mL of methanol

Elute:

3 mL of 5% NH4OH in methanol

Evaporate and Reconstitute:

1 mL of 20% methanol, then dilute 10 fold with 20% methanol.

MS/MS CONDITIONS:

Mass spectrometer: API3000 Ion source: Turbo lonspary

Polarity: Positive

Scan mode: MRM: primary,

Q1: 126.9, Q3: 85;

secondary,

10

Q1: 126.9, Q3: 110.1

IS: 4000 Temp. 550 DP: 25 CAD: 12 CE: 30

RECOVERY(CV%) 85% (2.6%); n=6

CXP:

HPLC METHOD:

Column: Orochem Reliasil C8 HPLC column

4.6x50 mm, 5µm.

Part number: R3BI-102

Mobile phase: 50% methanol, 50%water,

0.05% formic acid

Flow rate: 0.5 mL/min

Injection volume: 20µL Retention time: 3.99 min

