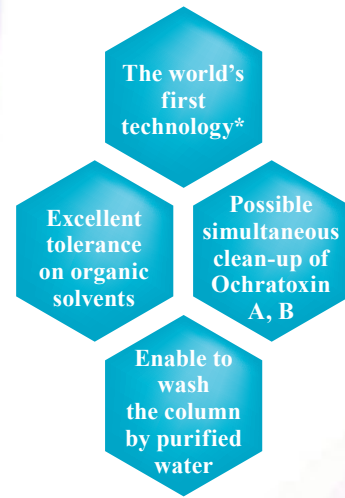


SmartColumn OCHRAKING

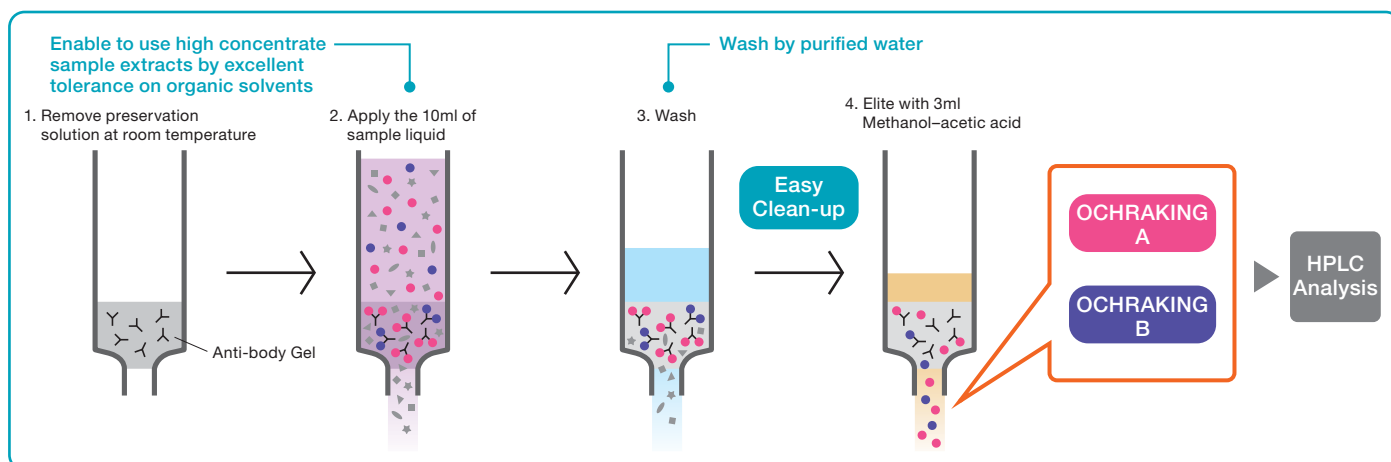
Creation of OCHRAKING: Effectively clean up Ochratoxin.



High organic solvent resistance, making pretreatment and analysis more efficient

- Ochratoxin can be cleaned up with only a small amount of extract solution.
- Pretreatment time can be greatly shortened, and analysis efficiency is improved.
- Ochratoxin A, B can be cleaned up.
- Purified water can be used in addition to ammonium acetate solution for column washing.

OCHRAKING streamlines sample clean-up



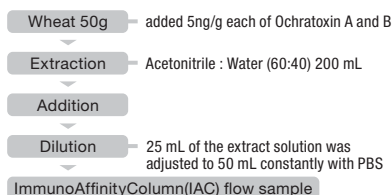
It is highly tolerant to organic solvents and can be cleaned up quickly with only a small sample solution.

Additive recovery test / wheat

When measuring ochratoxins in wheat, after extracting with 60% acetonitrile, you can clean-up Ochratoxins A and B simply by diluting to 30% with PBS.

In the case of measuring only Ochratoxin A, it can be used up to 48% acetonitrile concentration.

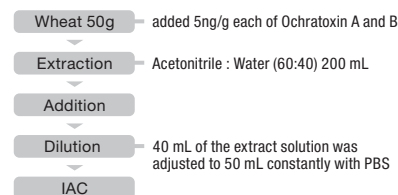
30% acetonitrile



Recovery rate

Ochratoxin A: 100%
Ochratoxin B: 91%

48% acetonitrile

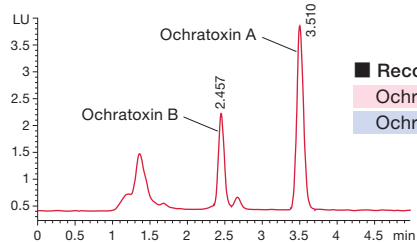
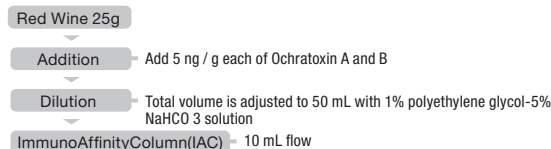


Recovery rate

Ochratoxin A: 99%

Additive recovery test / red wine

Dilution of sample



Recovery rate

Ochratoxin A: 95%
Ochratoxin B: 99%

HPLC measurement conditions

- Column: ODS (particle size 5 μm), inner diameter 4.6 mm, length 150 mm Column temperature: 45 °C.
- Mobile phase: acetonitrile • water • acetic acid (55: 43: 2) • Flow rate: 1.0 mL / min.
- Detection wavelength: excitation wavelength 333 nm, fluorescence wavelength 460 nm
- Injection amount: 100 μL

Specification

Product name:	OCHRAKING
Model	: AC02-25
Application	: Clean-up column for ochratoxin analysis in food
Recovery rate :	In the condition of 50% methanol containing 5 ng each of ochratoxin A and B, the recovery rate for each of Ochratoxins A and B is 80% or more when 10 mL of the solution was added to this column.
Effective period	: 12 months after production at 2-8 °C



For Aflatoxin Clean-Up SmartColumn AFLAKING

- Clean up aflatoxin with a small amount of extract
- Significant reduction in pre-treatment time
- Aflatoxin B1, B2, G1, G2, M1 can be cleaned up
- Possible to analyze spices that were difficult to measure accurately



The HORIBA Group adopts IMS (Integrated Management System) which integrates Quality Management System ISO9001, Environmental Management System ISO14001, and Occupational Health and Safety Management System OHSAS18001. We have now integrated Business Continuity Management System ISO22301 in order to provide our products and services in a stable manner, even in emergencies.



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HORIBA, Ltd.

2 Miyahigashi-cho, Kisshoin, Minami-ku, Kyoto, Japan Phone: +81 (75) 313-8121
http://www.horiba.com

Medical Business Division Sales Dept. International Sales

Phone: +81 (75) 313-5736 Fax: +81 (75) 313-8177

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