

HORIBA

Explore the future

AFLATOXINS / STERIGMATOCYSTIN
Immunoaffinity column for Chemical pre-treatment

SmartColumn AFLAKING STC

Newly developed immunoaffinity column for Aflatoxins and Sterigmatocystin clean-up!

AFLAKING STC enables speedy clean-up in small amount of extracts by its excellent tolerance on organic solvents.



*The world's first technology; AFLAKING STC enables to clean-up both Aflatoxins and Sterigmatocystin by one product. As of June, 2016 by our research



The features of AFLAKING STC

- Reactive to Aflatoxin B₁, B₂, G₁, G₂ and Sterigmatocystin
 - Enable to clean-up Aflatoxins and Sterigmatocystin in small amount of extracts, it helps shortening the time of pre-treatments
 - The tolerance on organic solvents has been improved
- Applicable organic solvent concentration rate:
- Clean-up of Aflatoxins: 20% concentration of Acetonitrile
40% concentration of Methanol
 - Clean-up of Sterigmatocystin: 10% concentration of Acetonitrile
20% concentration of Methanol

What is Immunoaffinity Column; IAC?

An IAC is a column with an antibody immobilized in gels designed for clean-ups.
An IAC offers outstanding selectivity because it uses the property of the antibody to bond to a specific antigen.
It is also able to efficiently recover the target substance, resulting in excellent clean-up capability.

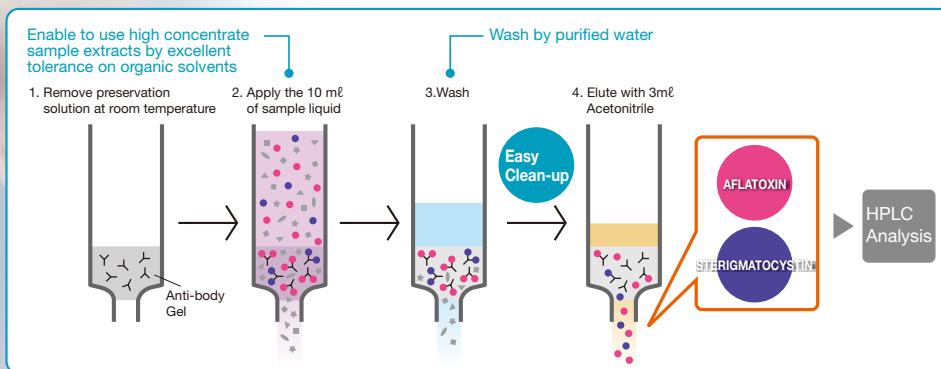
■ Spec

Product Name:	AFLAKING STC (25)
Model:	AC03-25
Usage:	Clean-up column for the analysis of Aflatoxins and Sterigmatocystin
Expire:	12 months from the manufacturing date under the condition of storing in 2-8°C

SmartColumn AFLAKING STC

Recovery Rate* (%)	
Brown Rice	97.7
White Rice	96.7
Wheat	95.3
Barley	95.2
Buckwheat	87.3
Corn	102.5

*These recovery rates are based on our research by using samples added 5.0 µg/kg of Sterigmatocystin. Mycotoxin Res., (2014)30:123-129



The monoclonal antibody immobilized in gels is filled in the column. Make bound Aflatoxins / Sterigmatocystin with the antibody by adding the extract of organic solvents, such as foodstuffs, to the column after diluting the extract to predetermined concentration. And, clean-up the left substances by running purified water. Make elute of Aflatoxins and Sterigmatocystin with dissociation of these from the antibody by adding the organic solvent such as Acetonitrile. It enables to concentrate and to clean-up high purified Aflatoxins and Sterigmatocystin in the extract of foodstuffs by these operations.

HORIBA SmartColum Series

All products in this series are made in Japan. The high quality is ensured.



AFLAKING(25)

Enable to clean-up Aflatoxin M₁ in addition to Aflatoxin B₁, B₂, G₁, and G₂

Product Name: AFLAKING (25), 25 columns packaged
AFLAKING (50), 50 columns packaged
Model: AC01-25
AC01-50
Usage: Clean-up column for the analysis of Aflatoxins
Expire: 12 months from the manufacturing date under the condition of storing in 2-8°C



AFLAKING(50)



OCHRAKING(25)

Enable to clean-up Ochratoxin A and B

Product Name: OCHRAKING(25),
25 columns packaged
Model: AC02-25
Usage: Clean-up column for the analysis of Ochratoxins in foodstuffs
Expire: 12 months from the manufacturing date under the condition of storing in 2-8°C



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.



Please read the operation manual before using this product to assure safe and proper handling of the product.

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