



Intended use:

DONStar™ immunoaffinity columns contain monoclonal antibodies against deoxynivalenol which are covalently bound to gel-particles and are intended for the analysis of deoxynivalenol in unprocessed and processed cereal products (e.g. corn, wheat, barley, DDGS, corn gluten).

Recommended solvents and buffers:

- Extraction solution: deionized or HPLC grade water
- Dilution: PBS-buffer (10 mM)
PBS-buffer:
 - 8 g NaCl, 1.2 g Na₂HPO₄, 0.2 g KH₂PO₄, 0.2 g KCl (p.A.)
 - dissolve in 990 mL distilled or deionized water
 - adjust pH to 7.4 using NaOH (1 M) or HCl (1 M)
 - fill up to 1000 mL with distilled or deionized water
- Eluent: methanol (HPLC grade)

All solvents and buffers should be at room temperature (15 – 25 °C).

Romer Labs recommends the use of Biopure™ isotope labeled internal standards.

Storage:

Always store at 2 – 8 °C (35 – 46 °F) when not in use.
Do not freeze. Do not use the IAC beyond the expiration date.

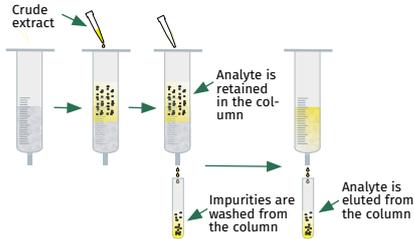
IMPORTANT: Download certificate of analysis by scanning the QR code on the external label or by visiting <https://www.romerlabs.com/en/customer-resources/>

Special Notes for column use:

- StarLine™ IAC contain sodium azide.
- StarLine™ IAC are designed for single use only.
- Application notes for the use of StarLine™ IAC have been developed by Romer Labs and are available on request.

Disclaimer/Warranty:

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Procedure

1 Sample Preparation

- Weigh 25 g of a representative ground sample (0.5 mm) into a suitable container.
- Add 200 mL of deionized water.
- Shake for 30 min on an orbital or gyratory shaker.
- Centrifuge or filter the extract (fluted filter).
- Pass 20 mL of the filtrate through a microfibre filter paper if the extract is not clear.

2 Sample Application

- The IAC must be at room temperature (15 – 25 °C) for usage!
- It is not necessary to rinse the IAC before applying the extract!
- Apply 2 mL of extract to the IAC.
- Let all extract pass through the IAC with a flow rate of approx. 1 mL/min.

3 Rinse

- Rinse the IAC with 5 mL PBS at a flow rate of 1 – 3 mL/min.
- Remove liquid from the column by applying pressure to the top or vacuum to the bottom. The column must not dry out completely!

4 Elution

- Place a suitable vial under the DONStar™ IAC.
- Use 1.5 – 3.0 mL of methanol for the elution of bound deoxynivalenol; the eluent should be applied to the column in several small portions (e.g. 3x0.5 mL)!

- Leave the eluent on the column for a few seconds before starting elution to allow intensive contact with the gel.
- Remove any remaining liquid from the IAC by applying pressure at the top or vacuum at the bottom.
- In case of low level contamination the eluent can be evaporated at approximately 60 °C and re-dissolved in a small portion of mobile phase.
- Inject

You can find worldwide contact information and learn more about our complete line of products for mycotoxin testing on our website.