

BiotinStar™

Immunoaffinity column
Item no. 10005408

Intended use:

BiotinStar™ immunoaffinity columns contain monoclonal antibodies against biotin, which are covalently bound to gel-particles and are intended for the analysis of various commodities (e.g. vitamin tablets, liquid vitamin preparations, cell culture extracts).

Recommended solvents and buffers:

- Extraction solution: PBS-buffer (10 mM)
 - 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
- Dilution: PBS-buffer (10 mM)
- Rinse solution: PBS-buffer (10 mM)
- 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.

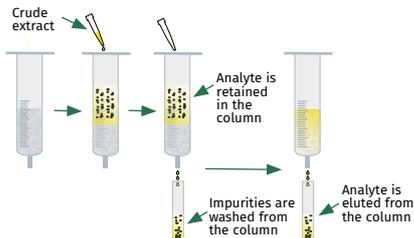
IMPORTANT: Download certificate of analysis by scanning the QR code on the external label or by visiting <https://www.romerlabs.com/en/customer-resources/>

Special Notes for column use:

- StarLine™ IAC contain sodium azide.
- StarLine™ IAC are designed for single use only

Disclaimer/Warranty:

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Procedure

1 Sample Preparation

- Biotin samples should be extracted with the method published by Bachas et al. [N.G. Hentz, L.G. Bachas Methods Enzymol. 1997; 279:275-86]. This method applies for vitamin tablets, liquid vitamin preparations and cell culture extracts.
- For example:
 - Weigh 25 g of vitamin containing tablets.
 - Add 100 mL PBS.
 - Filter extract through a 0.45 µm membrane filter.

2 Dilution

- 4 mL of extract (containing 1 g of sample if above-mentioned sample preparation is followed) are diluted with 20 mL PBS.

3 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 the diluted extract to the IAC.
- Let all extract pass through the IAC with a flow rate of approx. 1 – 3 mL/min.

4 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!

5 Elution

- Place a suitable vial under the BiotinStar™ IAC.
- To elute bound biotin apply 1 mL of methanol and wait until it has passed through the column!
- Apply 2 mL of methanol and let it pass through the column (flow rate 1 – 3 mL/min).
- 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 dried down 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.