

Note that this data sheet is not lot-specific. Please consult the vial label and the certificate of analysis for information on specific lots.

B-TeZ IAC Fumonisin 3 ml

Catalogue Number: BTFU314005

Package Size: 10 Columns

1. Description

Immuno affinity column based on monoclonal antibodies bonded to macroporous pearl cellulose beads.

2. Specificity

Fumonisin (FB1/FB2) (= FUM)

3. Form

Columns filled with gel in phosphate buffered saline (50 mM K-phosphate, pH 7.5, 150 mM NaCl) containing 0.05% sodium azide and 0.01% 2-methyl-4-isothiazolin-3-one embedded within two porous frits.

4. Gel Bed Volume:

0.3 - 0.5 ml

5. Column Working Range:

1⁽¹⁾ – 800ng FUM ⁽¹⁾Lower limit only depends on the sensitivity of the detection system (LC-FLD, LC-MS); the given value represents sensitivity of a common LC-FLD system after precolumn derivatization using o-phthaldialdehyde.

6. Recoveries:

85 – 110% Of each FUM species, given under 2., within the column working range

7. Organic Solvent Tolerance:

Up to 15% methanol or 15% acetonitrile in loading solution

8. pH Tolerance:

6.5 – 8.5

9. Flow Rate:

1 – 3ml/min

10. Elution:

2ml 98% methanol / 2% acetic acid (v/v)

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11. Column Capacity:

6000ng Fumonisin (FUM)

12. Cross Reactivity⁽²⁾:

Fumonisin B1 (100%)

Fumonisin B2 (103%)

⁽²⁾Relative recovery rates when a semi-saturative quantity of FUM (3000ng) in mixture is applied on the column.

13. Application:

Clean up of ailment (and feeding stuffs) extracts for reliable identification and accurate quantification of FUM.

14. Storage

The performance of the immuno affinity column is guaranteed until the expiry date given on the label or certificate if stored at 4°C. Avoid freezing of the product.

15. Additional Information

Columns should be free of air bubbles inside the gel to achieve optimal results regarding flow and recovery rates.

16. Product Instruction

This product is shipped along with an instruction where detailed information is given how to use B-TeZ immuno affinity columns at its best.