

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 Combi AOZDFT 3ml

Catalogue Number: BTCM326005

Package Size: 10 Columns

1. Description

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

2. Specificity

Aflatoxins (AFL) (= AFB1, AFB2, AFG1 und AFG2),
Ochratoxin (OTA) and
Zearalenon (ZON)
Deoxynivalenol (DON)
Fumonisin (FUM) (= FB1, FB2)
T2-Toxin (T2, HT2)

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:

0.02⁽¹⁾ - 3ng AFL

0.02⁽¹⁾ - 2ng OTA

0.2⁽¹⁾ - 20ng ZON

1⁽¹⁾ - 350ng DON

0.2⁽¹⁾ - 400ng FUM

0.2⁽¹⁾ - 400ng T2/HT2

⁽¹⁾Lower limit only depends on the sensitivity of the detection system (LC-FLD/UV; LC-MS); the given value represents sensitivity of a common LC-MS/MS system

6. Recoveries:

85 – 110%

Of each AOZDFT species, given under 2, within the column working range

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7. Organic Solvent Tolerance:

Up to 15% methanol or 10% acetonitrile in loading solution

8. pH Tolerance:

6.5 – 8.5

9. Flow Rate:

1 – 3ml/min

10. Elution:

3ml 98% methanol / 2% acetic acid (v/v)

11. Column Capacity:

500ng Aflatoxins (AFL)
700ng Ochratoxin (OTA)
900ng Zearalenon (ZON)
900ng Deoxynivalenol (DON)
6000ng Fumonisin (FUM)
3000ng T2-Toxin (T2/HT2)

12. Cross Reactivity⁽²⁾:

Aflatoxin B1 (100%)
Aflatoxin B2 (86%)
Aflatoxin G1 (101%)
Aflatoxin G2 (82%)
Aflatoxin M1 (81%)

Ochratoxin A (100%)
Ochratoxin B (103%)

Zearalenon (100%)
 α -Zearalanol (99%)
 β -Zearalanol (94%)
 α -Zearalenol (97%)
 β -Zearalenol (86%)

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Deoxynivalenol (100%)
Nivalenol (31%)
15-Acetyl-deoxynivalenol (33%)
3-Acetyl-deoxynivalenol (<1%)

Fumonisin B1 (100%)
Fumonisin B2 (103%)

T2-Toxin (100%)
HT2 (118%)

⁽²⁾Relative recovery rates when a semi-saturative, mixed quantity of each AOZDFT species is applied on the column.

13. Application:

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

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.