



Product: AflaCLEAN Select; 3 mL widebore

According to the matrix please select the appropriate method.

1 For non fatty matrices recommended e.g. wheat, barley, maize:

- Extract 20 g of sample with 100 mL (80 % methanol : 20 % water) in a blender jar at high speed for five minutes.
- Pass the extract through a plaited filter.
- Add 14 mL of the purified extract to 86 mL PBS buffer (pH 7.2).
- Continue with 4.

2 For fatty matrices recommended e.g. nuts, paprika, chilli, and pistachio paste:

- Add 2.0 g of NaCl to 20 g of sample.
- Extract with 100 mL of methanol: water (8:2) and 50 mL of n-hexane in a blender jar at high speed for five minutes.
- Pass the extract through a plaited filter
- (Note: If there is a separation of phases to be found, the lower liquid phase is used for the following steps).
- Add 14 mL of the purified extract to 86 mL PBS buffer (pH 7.2).
- Continue with 4.

3 For spices recommended e.g. black pepper, coriander, cumin, turmeric, and ginger:

- Add 2.0 g of NaCl to 20 g of sample.
- Extract with 100 mL of methanol : water (8:2) and 50 mL of n-hexane in a blender jar at high speed for five minutes.
- Pass the extract through a plaited filter
- (Note: If there is a separation of phases to be found, the lower liquid phase is used for the following steps).
- Add 5 mL of the purified extract to 30 mL PBS buffer (pH 7.2) containing 8 % Tween20.
- Continue with 4.

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4 Immunoaffinity chromatography procedure:

- The sample is recommended to be passed through a 0.2 µ syringe filter to remove residual turbidity.
- Take 5 - 50 mL of the diluted extract (depending on the extraction procedure and the sensitivity of detection) and pass it through the AflaCLEAN Select column. For spices (e.g. black pepper, cumin, turmeric, ginger, coriander) a maximum of 14 mL could be applied onto the AflaCLEAN Select column. A gentle vacuum or overpressure may be used in all steps passing liquid through the column; nevertheless, it is indispensable to maintain a maximum flow rate of 2 mL/min.
- To wash the column, pass 10 mL of distilled water through the column.
- Carefully remove the residual water in the column.
- Elute with at least 2 times 1 mL of methanol; let the first addition of methanol act on the gel for 5 minutes.
- Dilute or concentrate eluate to your requirements and measure directly by HPLC; alternatively, carefully concentrate to dryness and store cool and in the dark.

If you have any questions, please contact: mycotoxins@LCTech.de



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