DONeX™

DON Column for a Broad Range of Analysis

Deoxynivalenol, also known as Vomitoxin, is a metabolite of various molds of the genus Fusarium (*F.culmorum, F. graminearum*) and can often be found on contaminated cereals (wheat, barley, oat).

Generally the toxin is analyzed with HPLC/UV detection or alternatively with HPLC / post column derivatization / fluorescence detection or LC / MS. Whichever method is chosen, a good sample preparation extends life time of the analyzer and of the HPLC column and reduces interferences by matrix components. Moreover the running times of the HPLC system can be reduced for easy matrices from about 25 to 10 minutes by pre-cleaning.

If HPLC/UV detection is used, sensitivity can be dramatically enhanced with larger sample volumes.

LCTech clean-up columns DONeX™

With DONeX™ LCTech now offers a column for a matrix load of up to 4 g.

For a broad detection range of 50 ppb to 10 ppm this column shows good recovery rates.

The DONeX column is ideally suited to many common matrices: maize, barley, wheat, rye, cereal-based feed.

But **also with complex matrices** like muesli, noodles, and several kinds of bread acceptable results can be achieved.

The column is used with a sample load of 1g for HPLC/post column/fluorescence detection or LC/MS.

By increasing the matrix load up to 4g on column, users with HPLC/UV detection systems can reach detection limits as low as 200ppb.

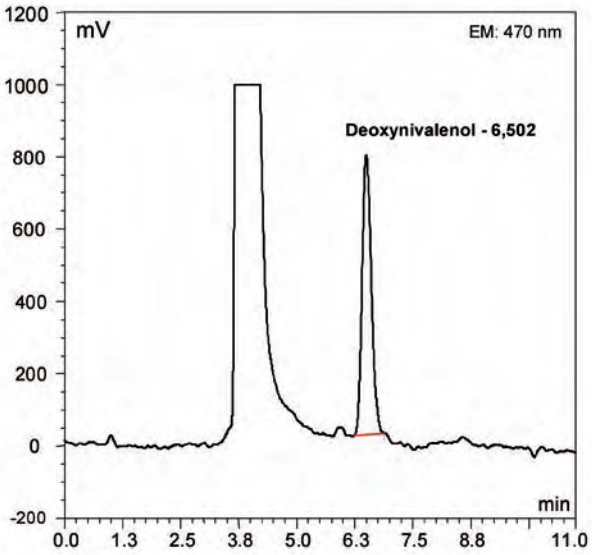
Further Information at www.Lctech.de/e/DONeX

For all matrices and all loading capacities a uniform standard protocol was developed by the LCTech application laboratory. There is no need to adapt the protocol to the sample volumes.

The LCTech DONeX™ column is based on a 3 mL standard form and thus is perfectly suitable for automated handling in the LCTech systems AcceCLEAN™ and FREESTYLE™.

Do you want to increase sensitivity and selectivity with post column derivatization? Please ask us!

Automation with the FREESTYLE™ system



Chromatogram of a cereal-based poultry feed sample, analyzed with HPLC/post column derivatization/FLD, sample was spiked with 1 ppm DON, extracted and purified, evaporated sample (1 g) was resolved in 2 mL HPLC solvent, 40 µL were injected (0.02 gram matrix equivalents represent 20 ng DON injected)

Cereal-based poultry feed here was cleaned up with the DONeX™ column and then analyzed.

Even with this complex matrix the disturbing components were effectively removed.

The result is a notably clean chromatgram without interfering peaks.

The LCTech application laboratory is available and would be pleased to support you.

Please write an e-mail to **mycotoxins@Lctech.de**

Ordering Information

DONeX™, Clean-up column for sample preparation for the analysis of Deoxynivalenol (Vomitoxin)

shrink-wrapped air- and moisture-proof
no special requirements for storage
no expiry date

25 columns
P/N 12792

500 columns
P/N 12793
shrink-wrapped to packages of 25 columns

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