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In-house validation of a screening test for *Fusarium* mycotoxins in wheat and maize

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The purpose of this talk is to present the results from an in-house validation of a multiplex dipstick for the analysis of *Fusarium* toxins, DON, ZEA, T-2/HT-2, FB1/FB2 in corn and wheat, which are important feed materials. The test is based on the principle that the target analytes are extracted and measured with the dipstick. The response of the measurement is then determined with a reader device. The test is used for the screening of corn and wheat against legal or target levels of the target mycotoxins established by European legislation. The in-house validation consisted of three steps, namely (1) estimating the precision of the method including "between day" effects and influences from different varieties of the matrices, (2) establishing robust cut-off values for the dipstick's response at



target level assuming an acceptable rate of false negative results of 5 % and (3) assessment of the rate of false positive results of blank samples and samples containing the target analytes below the legal limits. Finally, the performance profile is applied to realistic distribution of the mycotoxins in these materials obtained from monitoring programmes.

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Keywords mycotoxins;dipstick screening test;in-house validation

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