

MycoFoss™

Protect your business with smarter mycotoxin management



ANALYTICS BEYOND MEASURE

MycoFoss™ is the first ever mycotoxin testing solution to combine automation and speed in one. Just place the sample and press start. Results are delivered within eight minutes.

Let anyone test when needed

Make fast decisions on raw material intake, segregation, process adjustments and the use of additive binders and ensure compliance with legal requirements. The fully automated process requires no special skills, just place the ground sample and push start.

Make better decisions

Increase your knowledge about mycotoxin contamination levels and make more informed decisions. For maize and wheat, results for up to six mycotoxins are provided in one go. Single mycotoxin (DON) tests can also be performed on barley. Competitive cost of ownership and a low cost per sample, enables you to test as often as you need.

Be safe on every level

Accurate and consistent data based on an automated method combined with digital services provides a safe foundation for your mycotoxin risk management programme. Efficient data management and qualified documentation ensures adherence to standard operating procedures.

Sample types

Maize, Wheat and Barley

Assay solution

Singleplex Maize and Wheat: Aflatoxins - AFLA (AFB1, AFB2, AFG1 and AFG2)

Deoxynivalenol - DON

Singleplex Barley:

Deoxynivalenol - DON

Multiplex Maize and Wheat:

Deoxynivalenol - DON

Zearalenone - ZEA

Aflatoxins - AFLA (AFB1, AFB2, AFG1 and AFG2)

Ochratoxin A - OTA

Trichothecene 2 - T-2

Fumonisin - FUM (FB1, FB2 and FB3)

Technology

Bead-based flow cytometric immunoassay

Measuring ranges:

Singleplex solutions	
Mycotoxin	Measuring range, ppb
Aflatoxins - AFLA (AFB1, AFB2, AFG1 and AFG2)	2 - 300 (automatic dilution above 100)
Deoxynivalenol - DON	200 - 30,000 (automatic dilution above 5,000)
Multiplex solutions	
Mycotoxin	Measuring range, ppb
Aflatoxins - AFLA (AFB1, AFB2, AFG1 and AFG2)	Maize: 2 - 100. Wheat: 4 - 100
Deoxynivalenol - DON	200 - 5,000
Zearalenone - ZEA	30 - 500
Fumonisin - FUM (FB1, FB2 and FB3)	500 - 5,000
Ochratoxin A - OTA	5 - 100
Trichothecene 2 - T-2	50 - 500

Technical specification:

Consumables	Ready-to-use sample cups, extraction liquid, assays, standards and flow cytometer cleaning liquid for 100 analyses
Sample volume	5 (\pm 1) g
Sample preparation	The milled sample must have a particle size in which 95 % of the material passes through a sieve of 0.845 mm, 20-mesh or 850 microns. The milled sample should have a flour like texture for proper extraction of mycotoxins
Analysis time	7:55 minutes from inserting sample cup to result
Temperature	7-33 °C

Dimensions and installation requirements:

Dimensions (W x D x H)	700 x 485 x 435 mm. Keep minimum 20 cm between instrument and walls
Weight	37 kg
Power supply	100-240 VAC \pm 10 %, 50/60 Hz
Operation environment	Indoor facilities. Place the instrument on a stable bench. Avoid accumulation of dust
Drain	Waste container