

For LabSolutions™ LCMS

LC/MS/MS Method Package for Mycotoxins

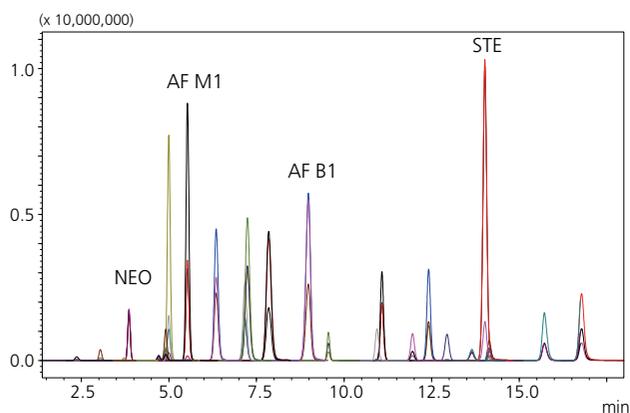


Mycotoxins are highly toxic chemical byproducts from fungi commonly found in crops, and residual content in foods are regulated the world over. This method package provides simultaneous multi-component analysis conditions for mycotoxins subject to the regulations in Japan, the USA, the EU, and China.

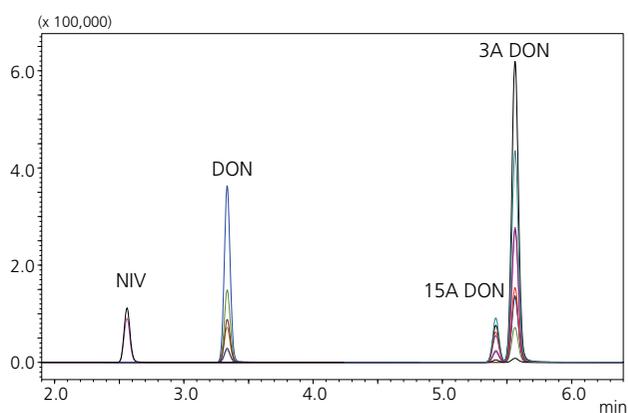
Analytical Methods for 27 Mycotoxins

This package contains seven different analytical method conditions and fully optimized MRM transitions for a total of 27 different mycotoxins. Rapid analytical methods are included for a 25 mycotoxin screen, 16 mycotoxins using high-sensitivity conditions, 10 mycotoxins using APCI, and specialized methods for trichothecenes, fumonisins, aflatoxins, and patulin.

Rapid analysis for 25 Mycotoxins



High resolution analysis of type-B trichothecenes



LC/MS/MS Method Package for Mycotoxins

Description of Each Method

	Outline	Analysis Time	Description
A	Rapid analysis method for 25 components	20 min.	This method rapidly and simultaneously analyzes 25 Mycotoxins. Carryovers are minimized by adopting the rinsing function from the Nexera series.
B	High-sensitivity analysis method for 16 components	30 min.	This method analyzes trichothecene mycotoxins with high sensitivity.
C	Method for analysis of patulin	10 min.	This method analyzes patulin.
D	Method for analysis of aflatoxins	30 min.	This method analyzes 6 aflatoxins.
E	Method for high resolution analysis of type-B trichothecenes	12 min.	This method focuses on separation out acetyldeoxynivalenol isomers.
F	Method for fumonisins	15 min.	Carryovers are minimized by adopting the rinsing function from the Nexera series.
G	Method for analysis of 10 components based on APCI	33 min.	This method based on APCI. APCI sometimes enable better recovery rate in complex samples such as animal feed.

Compound List for Each Method

	AF B1	AF B2	AF G1	AF G2	AF M1	AF M2	DON	3A DON	15A DON	NIV	FUX	FB1	FB2	FB3	OTA	T-2	HT-2	ZEN	α-ZEL	β-ZEL	α-ZAL	β-ZAL	DAS	NEO	STE	PAT	D3G
A	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
B	○	○	○	○	○	○	○	○	○	○	○				○	○	○	○						○			
C																										○	
D	○	○	○	○	○	○																					
E							○	○	○	○																	
F												○	○	○													
G							○	○	○	○	○					○	○							○	○		○

AF B1: aflatoxin B1 AF B2: aflatoxin B2 AF G1: aflatoxin G1 AF G2: aflatoxin G2 AF M1: aflatoxin M1
 AF M2: aflatoxin M2 DON: deoxynivalenol 3ADON: 3-acetyl-deoxynivalenol 15ADON: 15-acetyl-deoxynivalenol
 NIV: nivalenol FUX: 4-acetyl-nivalenol FB1: fumonisin B1 FB2: fumonisin B2 FB3: fumonisin B3 OTA: ochratoxin A
 T-2: T-2 toxin HT-2: HT-2 toxin ZEN: zearalenone α-ZEL: α-zearalenol β-ZEL: β-zearalenol α-ZAL: α-zearalanol
 β-ZAL: β-zearalanol DAS: diacetoxy-scirpenol NEO: neosolaniol STE: sterigmatocystin PAT: patulin
 D3G: deoxynivalenol-3-glucoside

Remarks and Precautions

LabSolutions LCMS Ver. 5.109 or later and LabSolutions Insight Ver. 3.8SP1 or later are required.

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