

APPLICATION

Determination of Boar Taint Compounds by LC/MS/MS, a Core-Shell LC Column Solution

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Overview

Boar taint is an odor or taste that is present in non-castrated male pigs used for consumption. A standardized reference method for three boar taint marker compounds (skatole, androstenone, and indole) is created for rapid testing for consumer acceptance. This application note demonstrates the acceptable resolution and ideal selectivity of Kinetex® XB-C18 core-shell LC column. For optimal sensitivity, the method was performed by liquid chromatography tandem mass spectrometry (LC/MS/MS).

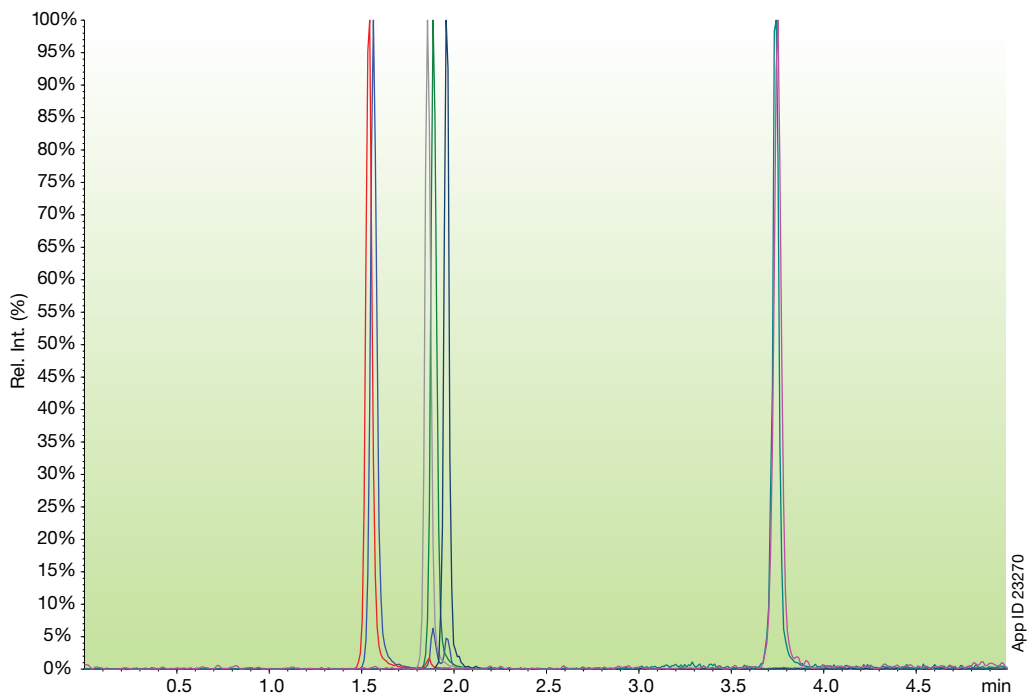
Standards were prepared in initial mobile phase (i.e. 30 % acetonitrile in water). All analytes are 1 ppm except for androstenone and D4-androstenone which are 10 ppm. And the injection volume was 10 µL.

Column: Kinetex 2.6 µm XB-C18
Dimensions: 50 x 2.1 mm
Part No.: 00B-4496-AN
Mobile Phase: A: 0.1% Formic acid in water
 B: 0.1% Formic acid in acetonitrile

Gradient	Time (min)	% B
	0	30
	3	90
	5	90
	5.01	30
	8	30

Flow Rate: 400 µL/min
Temperature: 22 °C
Detection: MS/MS (SCIEX 4000 QTRAP®), APCI+
Sample: 1. D7-Indole
 2. Indole
 3. D8-Skatole
 4. Skatole
 5. 5-Chloroindole
 6. D4-Androstenone
 7. Androstenone

Tainted boar meat compounds by LC/MS/MS on a Kinetex 2.6 µm XB-C18 column



APPLICATION

Ordering Information

Kinetex[®] XB-C18 Core-Shell HPLC/UHPLC Columns

5 µm Minibore Columns (mm)				SecurityGuard [™] ULTRA Cartridges*
Phase	30 x 2.1	50 x 2.1	100 x 2.1	3/pk
XB-C18	00A-4605-AN	00B-4605-AN	00D-4605-AN	AJO-8782 for 2.1 mm ID

5 µm MidBore [™] Columns (mm)				SecurityGuard [™] ULTRA Cartridges*
Phase	50 x 3.0	100 x 3.0	150 x 3.0	3/pk
XB-C18	00B-4605-Y0	00D-4605-Y0	00F-4605-Y0	AJO-8775 for 3.0 mm ID

5 µm Analytical Columns (mm)					SecurityGuard [™] ULTRA Cartridges*
Phase	50 x 4.6	100 x 4.6	150 x 4.6	250 x 4.6	3/pk
XB-C18	00B-4605-E0	00D-4605-E0	00F-4605-E0	00G-4605-E0	AJO-8768 for 4.6 mm ID

2.6 µm Minibore Columns (mm)						SecurityGuard [™] ULTRA Cartridges*
Phase	30 x 2.1	50 x 2.1	75 x 2.1	100 x 2.1	150 x 2.1	3/pk
XB-C18	00A-4496-AN	00B-4496-AN	00C-4496-AN	00D-4496-AN	00F-4496-AN	AJO-8782 for 2.1 mm ID

2.6 µm MidBore Columns (mm)						SecurityGuard [™] ULTRA Cartridges*
Phase	30 x 3.0	50 x 3.0	75 x 3.0	100 x 3.0	150 x 3.0	3/pk
XB-C18	00A-4496-Y0	00B-4496-Y0	00C-4496-Y0	00D-4496-Y0	00F-4496-Y0	AJO-8775 for 3.0 mm ID

2.6 µm Analytical Columns (mm)					SecurityGuard [™] ULTRA Cartridges*
Phase	50 x 4.6	75 x 4.6	100 x 4.6	150 x 4.6	3/pk
XB-C18	00B-4496-E0	00C-4496-E0	00D-4496-E0	00F-4496-E0	AJO-8768 for 4.6 mm ID

1.7 µm Minibore Columns (mm)					SecurityGuard [™] ULTRA Cartridges*
Phase	30 x 2.1	50 x 2.1	100 x 2.1	150 x 2.1	3/pk
XB-C18	00A-4498-AN	00B-4498-AN	00D-4498-AN	00F-4498-AN	AJO-8782 for 2.1 mm ID

1.7 µm MidBore Columns (mm)				SecurityGuard [™] ULTRA Cartridges*
Phase	30 x 3.0	50 x 3.0	100 x 3.0	3/pk
XB-C18	00A-4498-Y0	00B-4498-Y0	00D-4498-Y0	AJO-8775 for 3.0 mm ID

*SecurityGuard ULTRA Cartridges require holder, Part No.: AJO-9000

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