HPLC Application

ID No.: **20026**

Chloramphenicol in Seafood and dairy products by LC/MS/MS

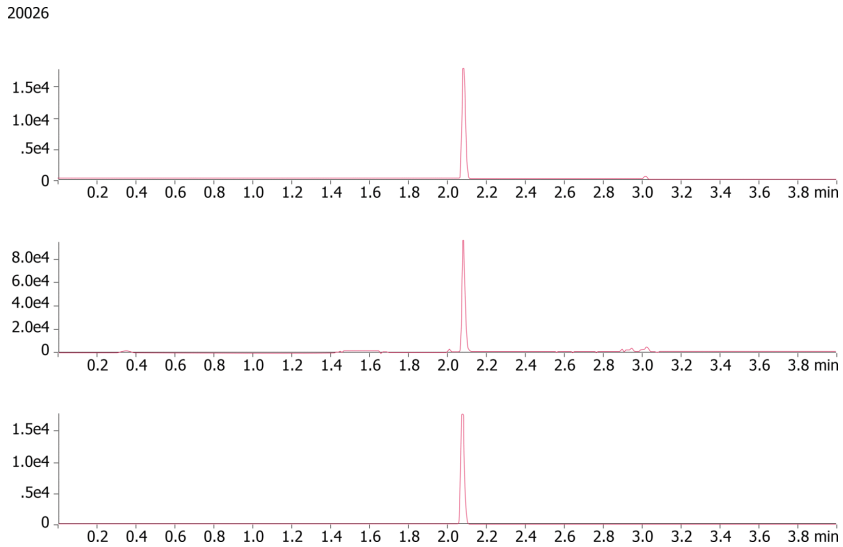
Column: Kinetex® 2.6 µm C18 100 Å, LC Column 50 x 2.1 mm, Ea
Dimensions: 50 x 2.1 mm ID
Order No: 00B-4462-AN
Elution Type: Gradient
Eluent A: Water
Eluent B: Acetonitrile

Gradient Profile:

Step No.	Time (min)	Pct A	Pct B
1	-2	95	5
2	0	95	5
3	2	95	5
4	2.01	5	95
5	4.5	5	95

Flow Rate: 0.4 mL/min
Col. Temp.: 20 °C
Detection: Tandem Mass Spec (MS-MS) @ (450 °C)
Detector Info: <a target="_blank" href="https://sciex.com/products/mass-spectrometers?utm_campaign=2019%20application%20search&utm_source=phenomenex&utm_medium=referral">SCIEX<,
Analyst Note: SecurityGuard™ ULTRA Guard Cartridge System extends column lifetime.

- SecurityGuard ULTRA Cartridges, UHPLC C18 for 2.1mm ID Columns, 3/Pk Part No.: AJ0-8782
- Holder Part No.: AJ0-9000



Products used in this application:

KINETEX®

ANALYTES:

1. Chloramphenicol
   Retention Time: 2.09 min
2. Chloramphenicol
   Retention Time: 2.09 min
3. Chloramphenicol-d5
   Retention Time: 2.08 min

For more information contact your Phenomenex Representative at support@phenomenex.com

Phenomenex products are available worldwide.

Sample Preparation Details

for **HPLC** Application ID No.: **20026**

Chloramphenicol in Seafood and dairy products by LC/MS/MS

PRODUCT DESCRIPTION:

Strata™-X 33 µm Polymeric Reversed Phase, 60 mg / 3 mL, Tubes , 50/Pk

Order No.: 8B-S100-UBJ

SOLID PHASE EXTRACTION (SPE) PRODCEDURE:

Note: The solvent volumes shown below are for a 60 mg bed mass.
The solvent volumes will need to be adjusted for a smaller or larger bed mass.

Condition:

Load:

Homogenize ~100 g of thawed shrimp using blender or tissue homogenizer. Weigh out 5 g of homogenized shrimp and transfer to a 15 mL polypropylene tube. Add 50 uL of d5-Chloramphenicol (IS) solution. Mix thoroughly using a vortex mixer to ensure

Wash:

Dry:

5 minutes @ 10 in Hg Vaccum

Elute:

Final Prep and Analysis:

Inject: 25 µL on HPLC Tandem Mass Spec (MS-MS) @ (450°C)

ANALYTES:		Spiked Conc. (ng/mL)	Log P	pKa	% Rec	%RSC (n=0)
1	Chloramphenicol	0				
2	Chloramphenicol	0				
3	Chloramphenicol-d5	0				

Note: *This method is designed as a convenient starting point for further investigation and can be tailored to meet your extraction goals. Call your local Phenomenex Representative for assistance in method development and optimization techniques.*