ICS ICS

GB

GB 23200.78 2016

SN/T 0641 2011

National food safety standards

Determination of crotoxyphos residues in meats and meat products

Gas chromatography

2016-12-18 2017-06-18

SN/T 0641-2011

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GB 2763
GB/T 6682

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GB/T 6682

4.1

4.1.1 C_7H_6O

4.1.2 C_6H_{12}

4.1.3 $C_4H_8O_2$

4.2.1 1+1 100 mL 100 mL

4.2.2 650 4 h

4.3.1 Crotoxyphos $C_{14}H_{19}O_6P$ CAS 7700-17-6 ≥99

4.4.1 1.0 mg/mL

0 4 12

0 4 6

5.1 (526nm)

5.2

5.3 : 3000 r/min

5.4 0.0001 g

5.5

5.6

5.7 100 mL

5.8 0.45 μm

5.9 : 7 cm 2 cm 3 cm

500g GB 2763 A

-18

10.0 g 0.1 g 50mL 10 g
20 mL - 1+1 2min 3000r/min 3 min
100 mL 40 mL - 1+1
. 40 5 mL 10 mL
3 mL - 1+1
- 1+1 10 mL 0.45 μm GPC

a) 400 mm, 25 mm Bio Beads S-X3
b) - 1+1,
c) 5.0mL/min
d) 5.0mL
e) 17 min
f) 5min
17 30 min

10 mL 7.2.2
1.0mL

a) HP-5, 30 m, 250μm , 0.25μm
b) ≥99.99% 1.5mL/min
c) ≥99.99% 60mL/min
d) 75mL/min
e) 100mL/min
f) 180 1 min 10 /min 280 5min
g) 250
h) 200
i) 1μL
j)

6.67 min A

a) Rtx-5MS, 30 m, 250 μm , 0.25 μm
b) ≥99.99% 1.5mL/min
c)
d) 180 1 min 10 /min 280 5 min

e) 250
f) - 280
g) 1μL
h) 1min
i) 70eV
j) EI
k)
l) (*m/z*) 193 166 127 105
m) 3 min

7.4.1

1

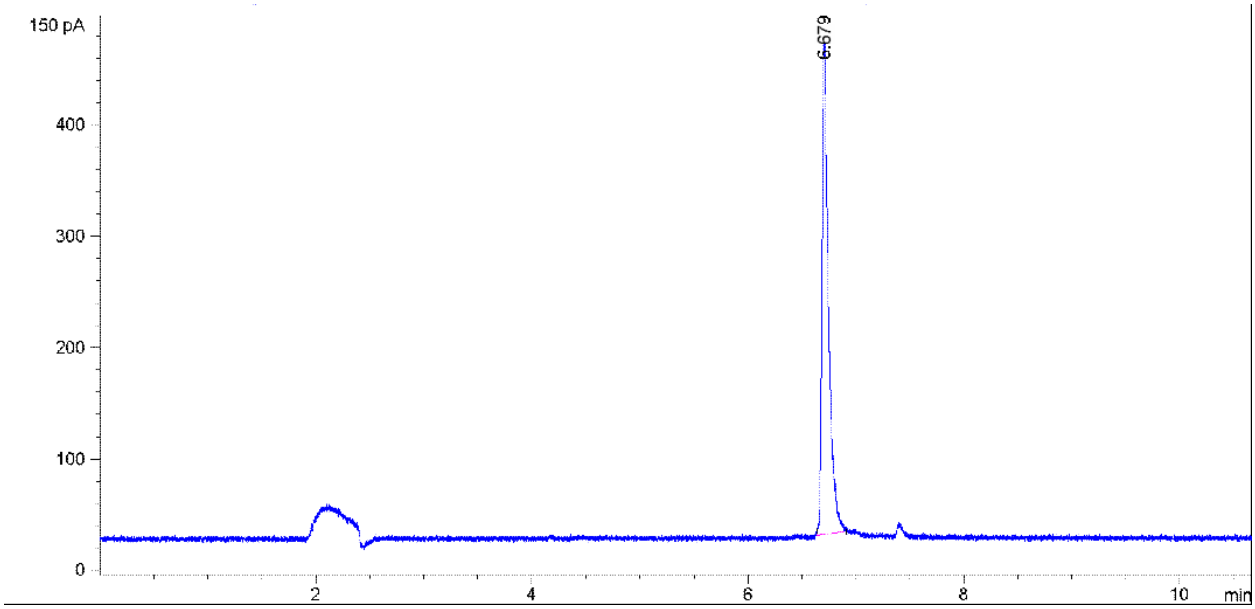
$$X = \frac{Ai \times Ci \times V}{Ai \times m} \qquad 1$$

X_i——mg/kg
A_i——
C_i——μg/mL
V——mL
A_{is}——
m ——g

9.1
C
9.2
D

0.01mg/kg

0.01 mg/kg 0.05 mg/kg 0.1 mg/kg B


150 pA
400
300
200
100
0
6.679
2
4
6
8
10
min

	mg/kg	%	%
	0.010	73.0 96.0	9.02
	0.050	79.4 98.8	7.22
	0.100	89.5 101.3	4.11
	0.010	71.0 86.0	7.02
	0.050	81.0 94.0	4.89
	0.100	84.5 103.3	7.23
	0.010	71.0 101.0	10.47
	0.050	74.6 99.5	9.65
	0.100	75.6 94.6	6.96

D

D.1

mg/kg	%
≤0.001	54
0.001≤0.01	46
0.01≤0.1	34
0.1≤1	25
1	19