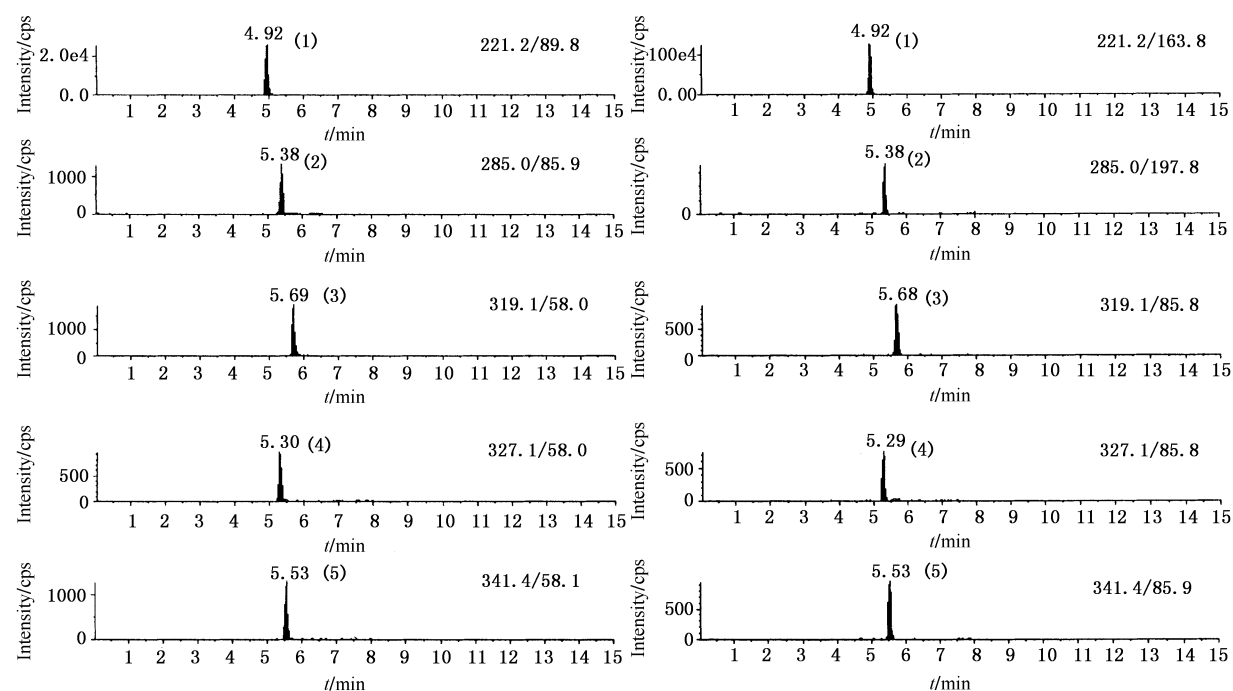


## 中华人民共和国出入境检验检疫行业标准

SN/T 1985—2007

Annex B  
(Informative)

## Multiple reaction monitoring(MRM)chromatogram of standard solution



- (1)—Xyzaline,0.02 mg/L;  
 (2)—Promethazine,0.002 mg/L;  
 (3)—Chlorpromazine,0.002 mg/L;  
 (4)—Acepromazine,0.002 mg/L;  
 (5)—propionylpromazine,0.002 mg/L.

Figure B.1—Multiple reaction monitoring(MRM)chromatogram of  
 5 phenothiazines residues of standard working solution

## 进出口动物源性食品中吩噻嗪类药物残留量 检测方法 液相色谱-质谱/质谱法

Determination of phenothiazines residues in foodstuffs of  
 animal origin for import and export—LC-MS/MS Method



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**Annex A**  
**(Informative)**  
**Reference mass conditions<sup>1)</sup>**

Reference mass conditions:

- a) Nebulizer gas: 7.00 L/min(Nitrogen);
- b) curtain gas: 9.00 L/min(Nitrogen);
- c) ion spray voltage: 2 500 V;
- d) heat temperature: 500℃;
- e) heat gas: 7.00 L/min(Nitrogen);
- f) collision gas: 6.00 mL/min (Nitrogen).
- g) Other mass operating conditions are listed in table A. 1.

**Table A. 1—Main MS parameters of phenothiazines**

Compound	Precursor (m/z)	Daughter ion (m/z)	Dwell time/ms	DP	FP	CE/eV	CXP
xyzaline	221. 2	89. 8 <sup>a</sup>	100	36	170	39	4
		163. 8	100	36	170	39	12
promethazine	285. 0	85. 9 <sup>a</sup>	50	41	150	31	14
		197. 8	50	41	150	33	18
chlorpromazine	319. 1	58. 0 <sup>a</sup>	50	36	150	61	4
		85. 8	50	36	150	29	6
acepromazine	327. 1	58. 0 <sup>a</sup>	50	51	180	65	10
		85. 8	50	51	180	31	8
propionylpromazine	341. 4	58. 1 <sup>a</sup>	50	51	210	71	4
		85. 9	50	51	210	27	6

Note: For the different MS equipment, the parameters may be different, and the MS parameters should be optimized to the best before analysis.

<sup>a</sup> mark is the quantification ion.

1) Non-commercial statement: the reference mass parameters in Annex A are accomplished by API 3 000 LC-MS/MS, the equipment and its type involved in the standard method is only for reference and not related to any commercial aim, and the analysts are encouraged to use equipments of different corporation or different type.

中华人民共和国出入境检验检疫  
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## 9 Limit of quantification and recovery

### 9.1 Limit of quantification

For the muscle, kidney, liver and milk, the limit of quantification for xylazine is 0.01 mg/kg, and for promethazine, chlorpromazine, acepromazine and propionylpromazine is 0.001 mg/kg respectively; for fish muscle, the limit of quantification for all phenothiazines residues is 0.001 mg/kg.

### 9.2 Recovery

Recovery see table 3.

Table 3—Recoveries of phenothiazines residues

Compound	Spiked level/(mg/kg)	Recoveries/%				
		Swine muscle	Swine kidney	Swine liver	Milk	Fish muscle
xylazine	0.01 (for fish muscle 0.001)	70.8~98.2	70.2~102	70.9~99.5	70.0~105	60.2~98.5
	0.02 (for fish muscle 0.002)	71.5~99.9	72.5~104	80.0~97.0	73.5~110	67.0~95.0
	0.04 (for fish muscle 0.004)	71.0~93.0	70.8~102	73.5~94.3	71.8~100	71.5~97.5
promethazine	0.001	71.3~106	83.5~110	77.3~109	67.3~102	61.8~99.5
	0.002	73.0~105	74.5~107	90.5~109	73.5~109	65.0~99.5
	0.004	79.0~103	87.5~108	95.0~110	77.5~109	76.5~104
chlorpromazine	0.001	65.7~102	69.7~91.7	66.1~97.8	62.1~96.5	61.3~96.5
	0.002	74.0~98.0	70.5~99.0	73.0~101	69.0~93.5	70.0~98.5
	0.004	75.0~102	70.5~99.0	77.0~95.5	64.5~88.3	69.0~99.8
acepromazine	0.001	77.2~105	65.8~102	70.2~108	70.0~109	62.1~90.5
	0.002	75.5~105	84.5~110	87.0~107	69.5~105	66.5~96.0
	0.004	75.5~103	83.3~110	75.3~105	68.5~94.5	74.0~98.5
propionylpromazine	0.001	72.1~110	63.8~89.7	66.1~99.5	66.9~93.4	61.8~94.5
	0.002	83.5~104	61.0~92.5	71.0~99.0	65.5~99.0	70.0~97.5
	0.004	72.8~105	75.3~97.3	76.8~101	73.0~93.8	70.3~92.0

## 前 言

本标准的附录 A 和附录 B 均为资料性附录。

本标准由国家认证认可监督管理委员会提出并归口。

本标准起草单位：中华人民共和国深圳出入境检验检疫局、中国检验检疫科学研究院、中华人民共和国辽宁出入境检验检疫局。

本标准主要起草人：岳振峰、谢丽琪、唐少冰、赵凤娟、彭涛、华红慧、韩瑞阳、王宏伟、侯乐锡。

本标准系首次发布的出入境检验检疫行业标准。