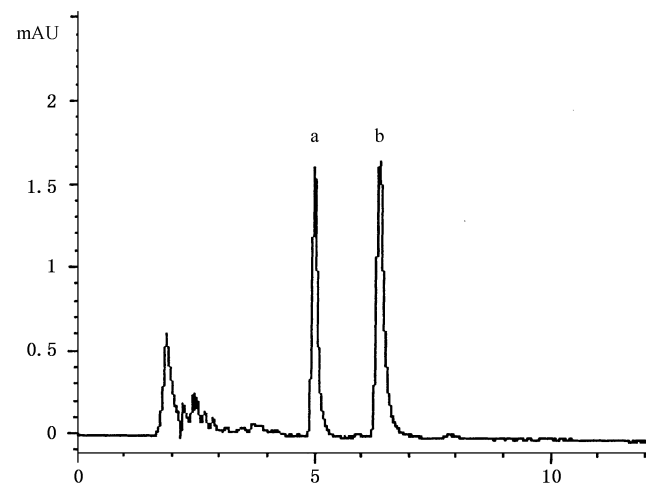


中华人民共和国出入境检验检疫行业标准

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Annex B
(informative annex)
Chromatogram of Thiabendazole and Carbendazim standard solution

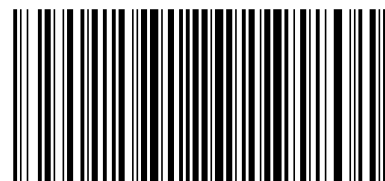


a—Carbendazim;
b—Thiabendazole.

Figure B.1 The HPLC Chromatogram of Carbendazim and Thiabendazole standard

进出口浓缩果汁中噻菌灵、
多菌灵残留量检测方法
高效液相色谱法

Determination of thiabendazole and carbendazim residues
in concentrated fruit juice for import and export—
High performance liquid chromatographic method



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Annex A
(informative annex)

The references of violet-spectrum characteristics of Thiabendazole and Carbendazim

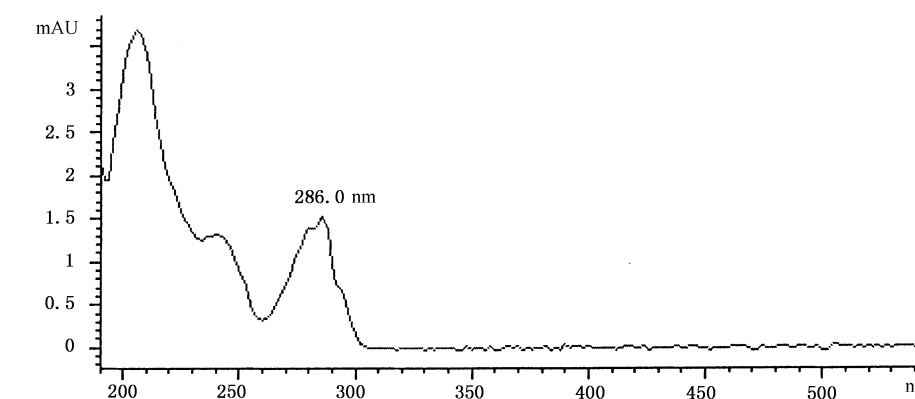


Figure A.1 The violet-spectrum characteristics of Carbendazim

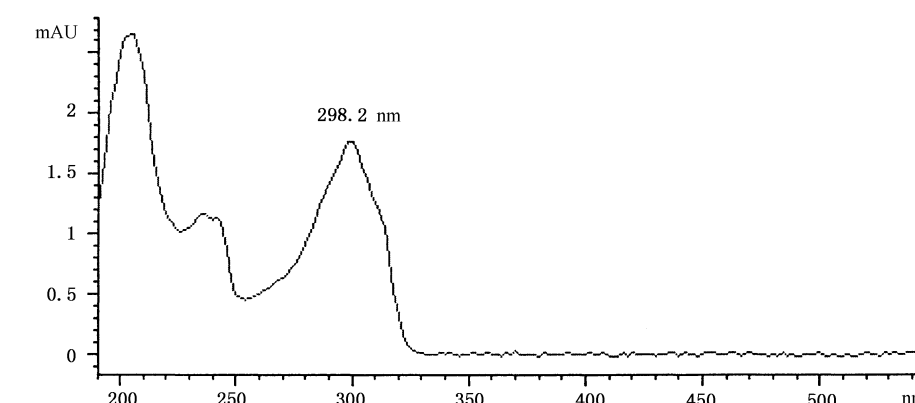


Figure A.2 The violet-spectrum characteristics of Thiabendazole

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3.4.3.3 Blank test

Perform the blank test with the same procedures as that described in the method of determination , but without addition of test sample.

3.4.3.4 Calculation and expression of results

The calculation of results is according to formula(1), the blank value shall be subtracted from the above result of calculation:

$$X = \frac{h \cdot c_s \cdot V_3}{h_s \cdot m \cdot (V_2/V_1)} \quad \dots\dots\dots(1)$$

Where

- X ——the residue content of Thiabendazole or Carbendazim, mg/kg;
- h ——the peak height of Thiabendazole or Carbendazim of the sample solution;
- c_s ——the concentration of Thiabendazole or Carbendazim in the standard working solution, $\mu\text{g/mL}$;
- V_3 ——the final volume of sample solution;
- h_s ——the peak height of Thiabendazole or Carbendazim of the standard working solution;
- m —— the mass of test sample, g;
- V_2 —— the volume of purified extraction, mL;
- V_1 ——the total volume of extraction, mL;

4 Limit of determination and recovery

4.1 Limit of determination: According to the experimental data, the limit of determination of Thiabendazole and Carbendazim is 0.020 mg/kg respectively.

4.2 Recovery: The recovery of Thiabendazole are 75.7%~93.3% when the fortifying concentrations of Thiabendazole are between 0.02 mg/kg~0.20 mg/kg. The recovery of Carbendazim are 80.8%~99.2% when the fortifying concentrations of Carbendazim are between 0.02 mg/kg~0.20 mg/kg.

前 言

本标准的附录 A、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。

本标准负责起草单位:中华人民共和国广西出入境检验检疫局。

本标准参加起草单位:中华人民共和国北京出入境检验检疫局。

本标准主要起草人:刘晓松、高欣、郑玲、李丽华、徐超一、罗兆飞。

本标准系首次发布的出入境检验检疫行业标准。