

中华人民共和国农业农村部公告

第 968 号

根据《兽药管理条例》规定,我部组织修订了《兽药中非法添加药物快速筛查法(液相色谱—二极管阵列法)》,制定了《兽药中添加辅料快速筛查法(超高效液相色谱—二极管阵列法)》,现予发布,自发布之日起执行。农业农村部公告第 169 号同时废止。

特此公告。

- 附件:1. 兽药中非法添加药物快速筛查法(液相色谱—二极管阵列法)
2. 兽药中添加辅料快速筛查法(超高效液相色谱—二极管阵列法)

农业农村部

2025 年 11 月 7 日

附件 1

兽药中非法添加药物快速筛查法
(液相色谱—二极管阵列法)

1 适用范围

1.1 本方法适用于兽药中紫外光谱图库中所列非法添加药物的筛查。

1.2 用于紫外光谱图库之外的具有紫外吸收的非法添加药物的筛查时，需进行空白试验和检测限测定，并测定对照品溶液的紫外光谱图。

2 检查方法

按照高效液相色谱法（《中国兽药典》一部附录 0512）测定。

2.1 超高效液相色谱—二极管阵列法

色谱条件与系统适用性试验 用十八烷基硅烷键合硅胶为填充剂（ACQUITY UPLC HSS T₃, 1.8μm, 2.1×100mm）；以水-1mol/L 醋酸铵溶液（取醋酸铵 77g，加水至 1000ml，用冰醋酸调节 pH 值至 5.0）（99：1）为流动相 A，甲醇-1mol/L 醋酸铵溶液（99：1）为流动相 B，按下表进行线性梯度洗脱；流速每分钟 0.45ml；二极管阵列检测器，采集波长范围为 200nm~400nm，分辨率为 1.2nm，提取波长按需设定（如 230nm、270nm、最大值图等）。

时间（分钟）	流动相 A（%）	流动相 B（%）
0.00	98	2
0.25	98	2
12.25	1	99
13.00	1	99
13.01	98	2
17.00	98	2

供试品溶液的配制 中药固体制剂 取 50mg，加 50%甲醇溶液 10ml，超声 10 分钟（必要时可调整）；

中药液体制剂 取 10μl~20μl，加 50%甲醇溶液 10ml，摇匀；

化药液体制剂 取 20μl，加 50%甲醇溶液 10ml，摇匀；

其他化药制剂 取 50mg，加 50%甲醇溶液 10ml，超声 10 分钟（必要时可调整），

用 50% 甲醇溶液稀释制成每 1ml 中约含有效成分 50 μ g~100 μ g 的溶液。

对照品溶液的配制（紫外光谱图库外品种） 取对照品适量，用 50% 甲醇溶液溶解并稀释制成每 1ml 中约含 50 μ g~100 μ g 的溶液，溶解性差的对照品，可加适量盐酸溶液或氢氧化钾溶液使其溶解。

测定法 取供试品溶液 2 μ l，注入液相色谱仪，同时记录色谱图与光谱图。通过与紫外光谱图库中对照光谱图最大吸收波长和图形比对，确定供试品中是否含有相应药物。可根据实验结果调整进样量或浓度，使紫外光谱图光滑、特征清晰。

结果判定 供试品溶液光谱图与紫外光谱图库中对应光谱图无明显差异，判为可疑阳性结果。筛查结果呈可疑阳性的样品，需按农业农村部发布的兽药质量监督抽检计划的相关要求，采用补充检查方法进行确证。

2.2 液相色谱—二极管阵列法

色谱条件与系统适用性试验 用十八烷基硅烷键合硅胶为填充剂（Alltima C₁₈，5 μ m，4.6 $\times$ 250mm）；以磷酸二氢钠溶液（取磷酸二氢钠 3.0g，加水 1000ml，加三乙胺 0.5ml，用饱和氢氧化钠溶液调 pH 值至 7.0）：甲醇（70：30）为流动相；流速每分钟 1.0ml；二极管阵列检测器，采集波长范围为 200nm~400nm，分辨率为 1.2 nm，提取波长按需设定。

供试品溶液的配制 同 2.1。

对照品溶液的配制 同 2.1。

测定法 取供试品溶液 10 μ l~20 μ l 注入液相色谱仪，其他同 2.1。

结果判定 同 2.1。

2.3 液相色谱—二极管阵列法（磺胺类）

色谱条件与系统适用性试验 用十八烷基硅烷键合硅胶为填充剂（Alltima T₃，5 μ m，4.6 $\times$ 250mm）；0.2% 冰醋酸溶液：乙腈（70：30）为流动相；流速每分钟 1.0ml；二极管阵列检测器，采集波长范围为 200nm~400nm，分辨率为 1.2nm，提取波长按需设定。

供试品溶液的配制 同 2.1。

对照品溶液的配制 同 2.1。

测定法 取供试品溶液 10 μ l~20 μ l 注入液相色谱仪，其他同 2.1。

结果判定 同 2.1。

2.4 液相色谱—二极管阵列法（氟喹诺酮类）

色谱条件与系统适用性试验 用十八烷基硅烷键合硅胶为填充剂（Atlantis C₁₈，

5 μ m, 4.6 $\times$ 250mm); 以磷酸溶液 (取磷酸 3ml, 加水 1000ml, 用三乙胺调节 pH 值至 3.0 $\pm$ 0.1, 加乙腈 53ml, 摇匀) 为流动相 A, 乙腈为流动相 B, 甲醇为流动相 C, 按下表进行线性梯度洗脱; 流速每分钟 1.0ml; 二极管阵列检测器, 采集波长范围为 200nm~400nm, 分辨率为 1.2nm, 提取波长按需设定。

时间 (分钟)	流动相 A (%)	流动相 B (%)	流动相 C (%)
0.00	89.6	6.2	4.2
30.00	89.6	6.2	4.2
30.20	90	10	0
55.00	90	10	0
55.20	89.6	6.2	4.2
65.00	89.6	6.2	4.2

供试品溶液的配制 同 2.1。

对照品溶液的配制 同 2.1。

测定法 取供试品溶液 10 μ l~20 μ l 注入液相色谱仪, 其他同 2.1。

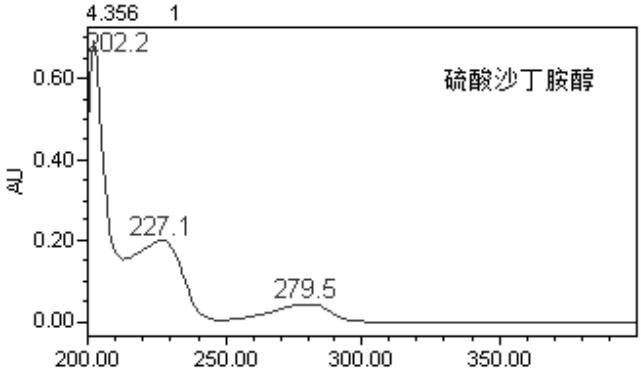
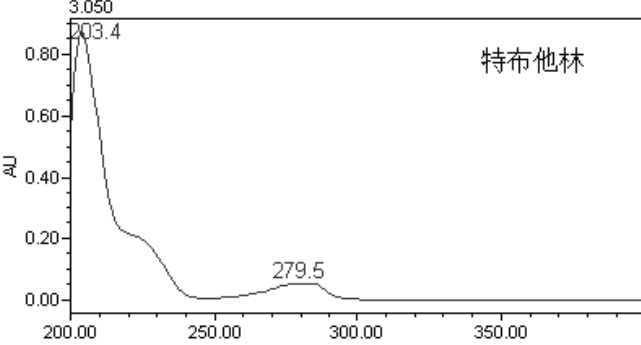
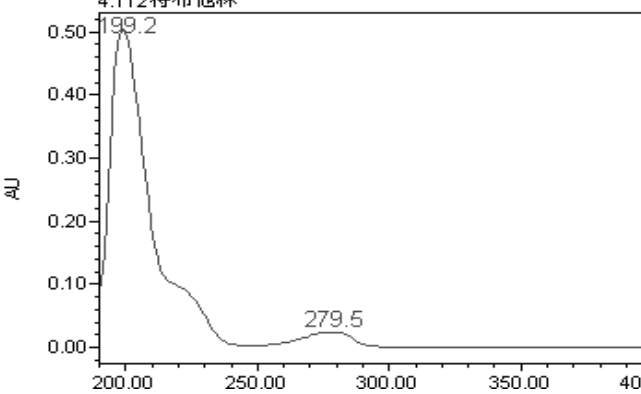
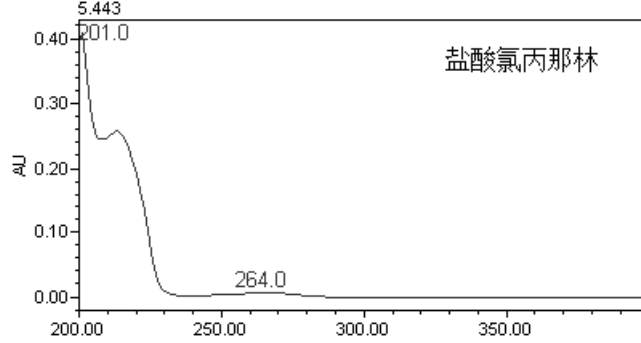
结果判定 同 2.1。

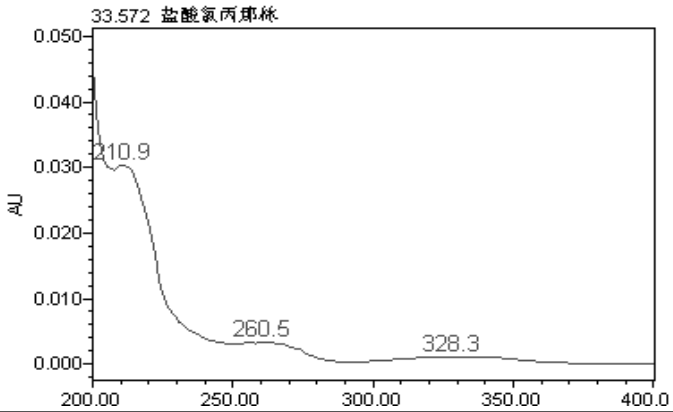
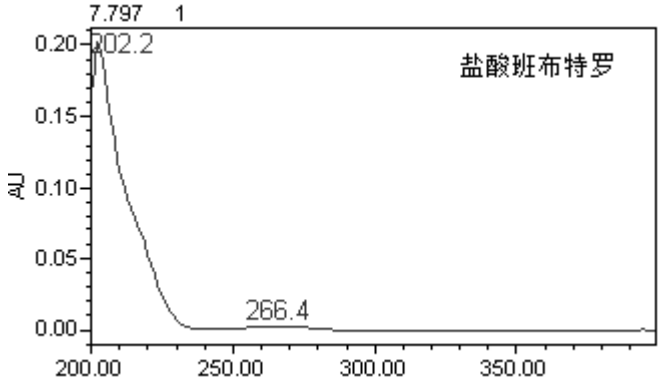
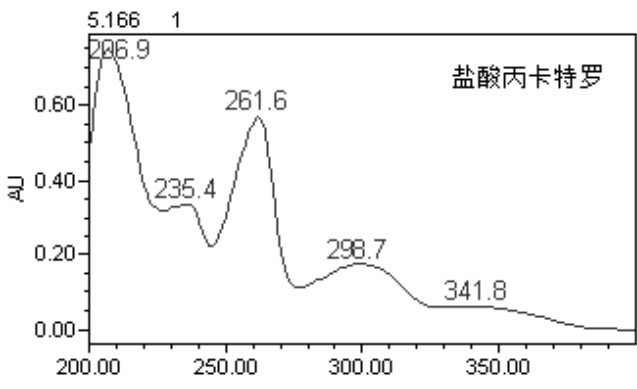
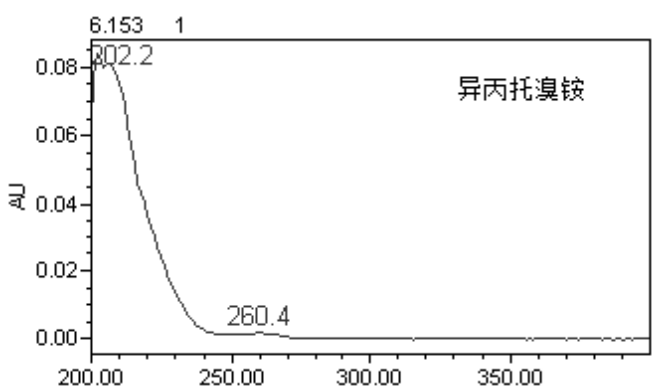
附: 药物紫外光谱图库

注: 编号由品种序号和方法序号组成, -1 是指方法 2.1, -2 是指方法 2.2, -3 是指方法 2.3, -4 是指方法 2.4, 对应谱图为该方法条件下所得。

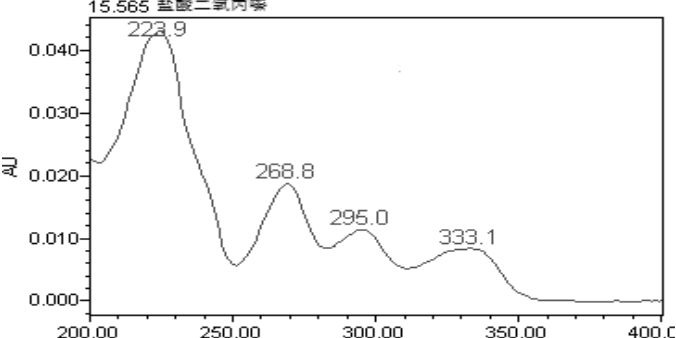
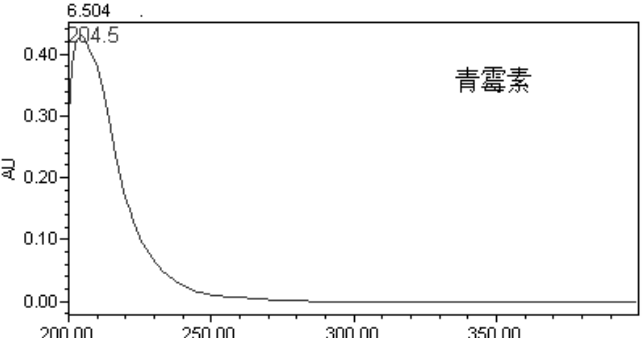
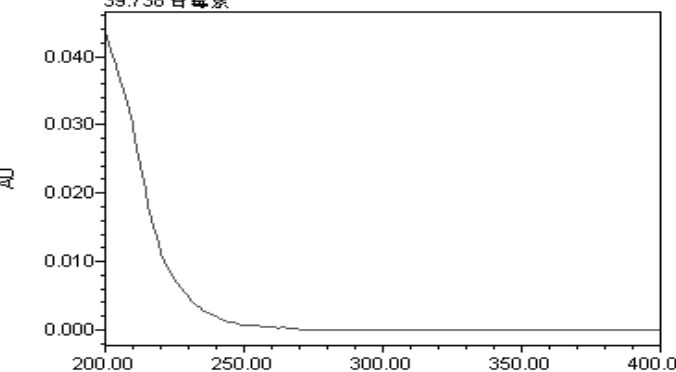
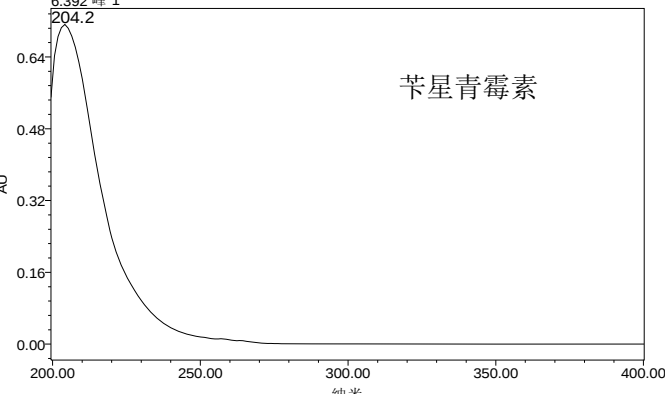
药物紫外光谱图库			
名称	编号	最大吸收波长(nm)	谱图
氨茶碱	001-1	273.5	
	001-2	271.2	
茶碱	002-1	273.5	
	002-2	271.2	

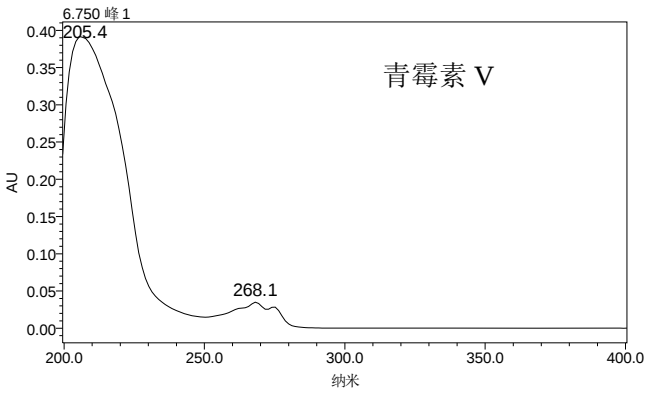
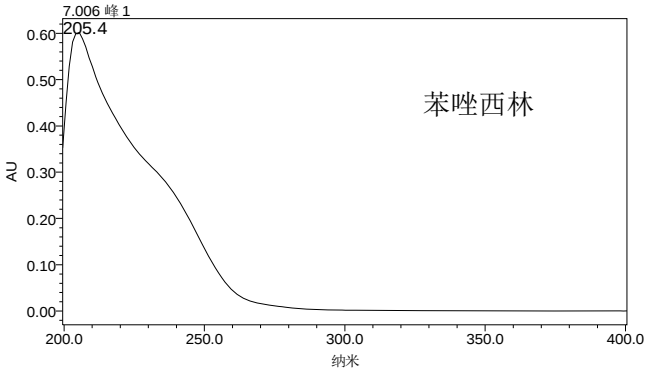
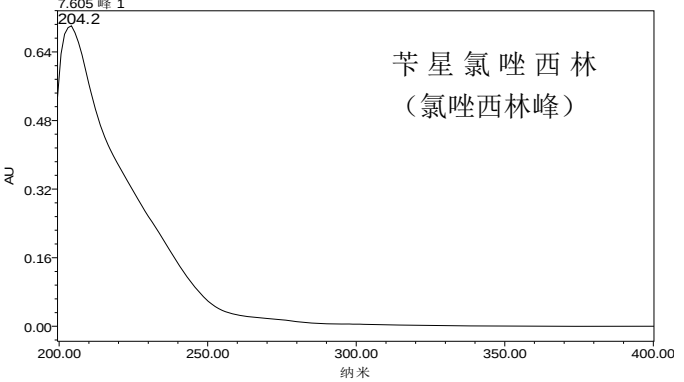
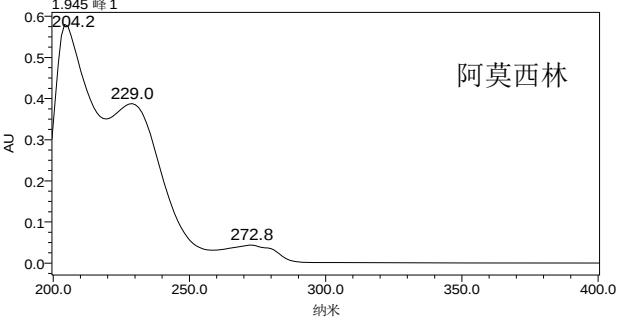
二羟丙茶碱	003-1	275.9	Chromatogram for 二羟丙茶碱 (003-1). The x-axis represents time in minutes (200.00 to 350.00) and the y-axis represents AU (0.00 to 1.50). Two peaks are labeled: 208.1 and 275.9.
	003-2	272.4	Chromatogram for 二羟丙茶碱 (003-2). The x-axis represents time in minutes (200.00 to 400.00) and the y-axis represents AU (0.00 to 0.60). Two peaks are labeled: 205.1 and 272.4.
己酮可可碱	004-1	275.9	Chromatogram for 己酮可可碱 (004-1). The x-axis represents time in minutes (200.00 to 350.00) and the y-axis represents AU (0.00 to 0.80). Two peaks are labeled: 208.1 and 275.9.
	004-2	273.6	Chromatogram for 己酮可可碱 (004-2). The x-axis represents time in minutes (200.00 to 400.00) and the y-axis represents AU (0.00 to 0.06). Two peaks are labeled: 206.2 and 273.6.

硫酸沙丁胺醇	005-1	227.1 279.5	
特布他林	006-1	279.5	
	006-2	279.5	
盐酸氯丙那林	007-1	264.0	

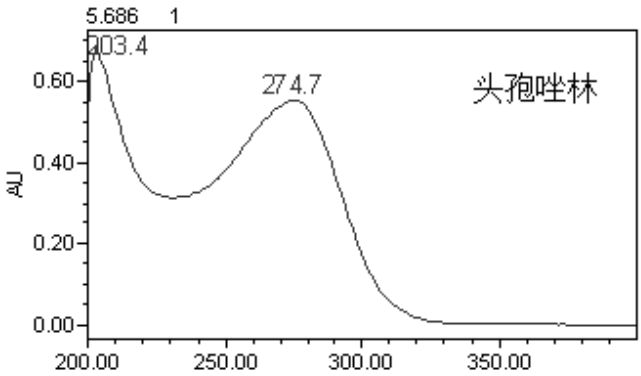
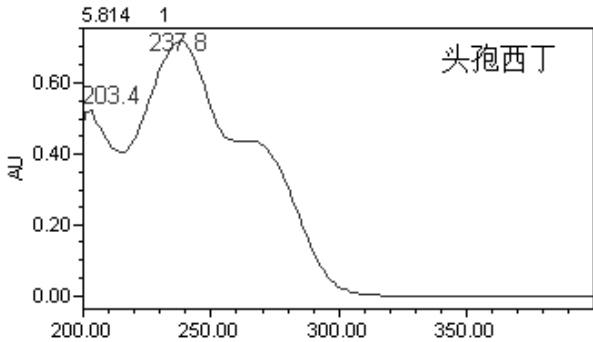
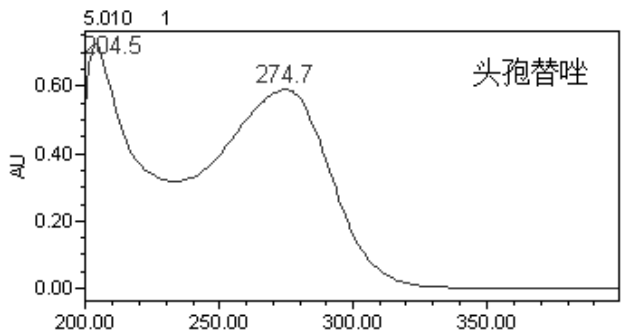
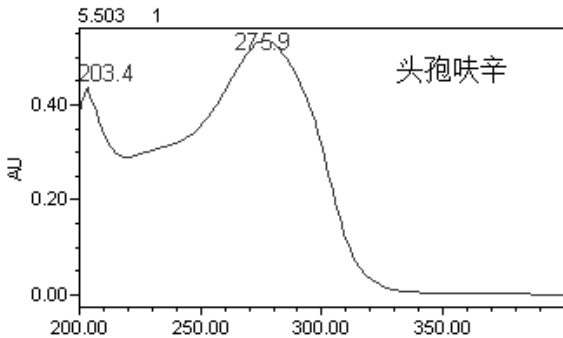
	007-2	260.5 328.3	 33.572 盐酸氯丙那林
盐酸班布特罗	008-1	266.4	 7.797 1 202.2 盐酸班布特罗
盐酸丙卡特罗	009-1	235.4 261.6 298.7 341.8	 5.166 1 206.9 盐酸丙卡特罗
异丙托溴铵	010-1	260.4	 6.153 1 202.2 异丙托溴铵

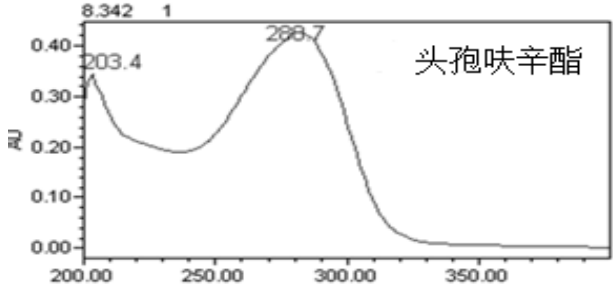
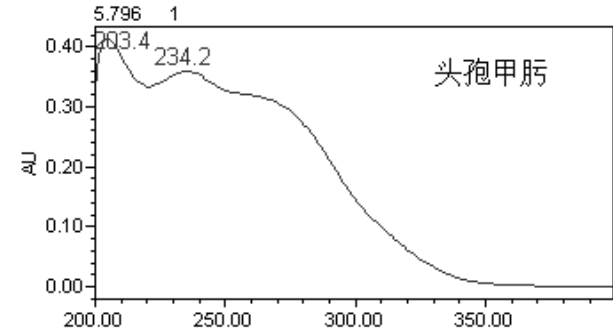
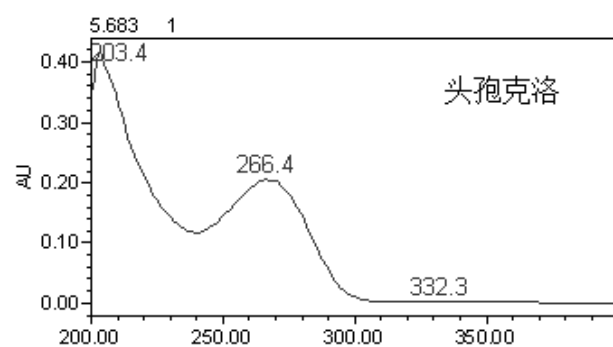
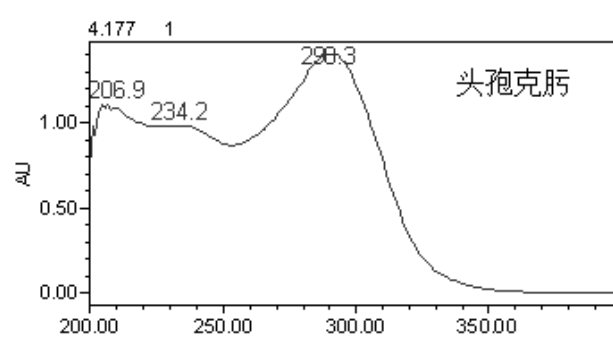
盐酸 氨溴索	011-1	211.7 248.5 313.1	Chromatogram of Ammonium Bromide Hydrochloride (盐酸氨溴索) showing peaks at 211.7, 248.5, and 313.1 minutes. The y-axis is AU (0.00 to 0.30) and the x-axis is time (200.00 to 350.00).
	011-2	245.1 302.1	Chromatogram of Ammonium Bromide Hydrochloride (盐酸氨溴索) showing peaks at 208.6, 245.1, 302.1, and 389.3 minutes. The y-axis is AU (0.000 to 0.030) and the x-axis is time (200.00 to 400.0).
盐酸 溴己新	012-1	210.5 250.9 309.5	Chromatogram of Bromhexine Hydrochloride (盐酸溴己新) showing peaks at 210.5, 250.9, and 309.5 minutes. The y-axis is AU (0.00 to 0.50) and the x-axis is time (200.00 to 350.00).
	012-2		不出峰
盐酸 二氧丙嗪	013-1	228.3 266.4 292.7 329.9	Chromatogram of Promethazine Hydrochloride (盐酸二氧丙嗪) showing peaks at 228.3, 266.4, 292.7, and 329.9 minutes. The y-axis is AU (0.00 to 0.30) and the x-axis is time (200.00 to 350.00).

	013-2	223.9 268.8 295.0 333.1	15.565 盐酸二氢丙嗪  水相:有机相 40:60
青霉素	014-1	204.5	6.504  青霉素
	014-2	/	39.738 青霉素 
苜星青霉素	015-1	204.2	6.392 峰 1  苜星青霉素

青霉素 V	016-1	268.1	 UV spectrum of Penicillin V (青霉素 V). The x-axis represents wavelength in nanometers (200.0 to 400.0 nm), and the y-axis represents absorbance (AU, 0.00 to 0.40). The spectrum shows a major peak at 205.4 nm (labeled 6.750 峰 1) and a shoulder at 268.1 nm.
苯唑西林	017-1	205.4	 UV spectrum of Oxacillin (苯唑西林). The x-axis represents wavelength in nanometers (200.0 to 400.0 nm), and the y-axis represents absorbance (AU, 0.00 to 0.60). The spectrum shows a major peak at 205.4 nm (labeled 7.006 峰 1).
苧星氯唑西林	018-1	204.2	 UV spectrum of Nafcillin (苧星氯唑西林). The x-axis represents wavelength in nanometers (200.00 to 400.00 nm), and the y-axis represents absorbance (AU, 0.00 to 0.64). The spectrum shows a major peak at 204.2 nm (labeled 7.605 峰 1).
阿莫西林	019-1	229.0 272.8	 UV spectrum of Amoxicillin (阿莫西林). The x-axis represents wavelength in nanometers (200.0 to 400.0 nm), and the y-axis represents absorbance (AU, 0.0 to 0.6). The spectrum shows three peaks: a major peak at 204.2 nm (labeled 1.945 峰 1), a shoulder at 229.0 nm, and a minor peak at 272.8 nm.

头孢吡肟	020-1	237.8 259.2	Chromatogram of Cefepime (头孢吡肟) showing peaks at 3.755, 104.5, 237.8, and 259.2 minutes. The x-axis is time in minutes (200.00 to 350.00) and the y-axis is AU (0.00 to 1.00).
头孢丙烯	021-1	231.8 281.9	Chromatogram of Cefprozil (头孢丙烯) showing peaks at 4.952, 103.4, 231.8, and 281.9 minutes. The x-axis is time in minutes (200.00 to 350.00) and the y-axis is AU (0.00 to 1.00).
头孢地尼	022-1	225.9 289.1	Chromatogram of Cefdinir (头孢地尼) showing peaks at 4.703, 1, 225.9, and 289.1 minutes. The x-axis is time in minutes (200.00 to 350.00) and the y-axis is AU (0.00 to 0.60).
头孢地嗪	023-1	235.4 262.8	Chromatogram of Cefditoren (头孢地嗪) showing peaks at 6.218, 1, 104.5, 235.4, and 262.8 minutes. The x-axis is time in minutes (200.00 to 350.00) and the y-axis is AU (0.00 to 0.60).

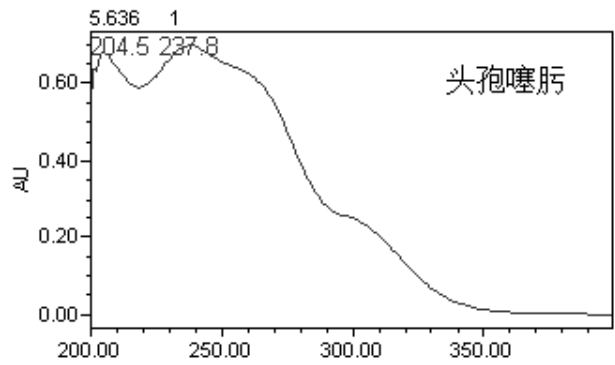
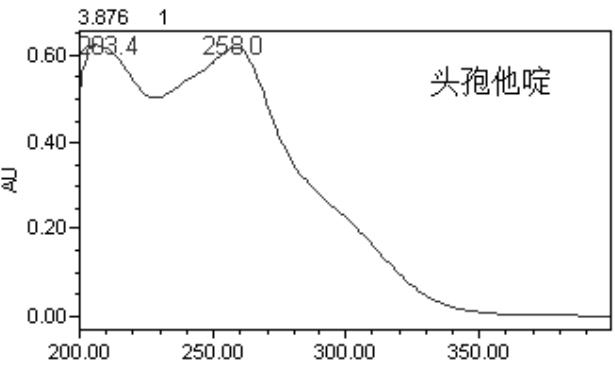
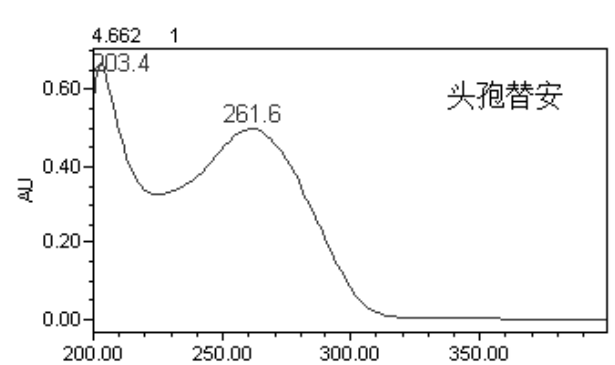
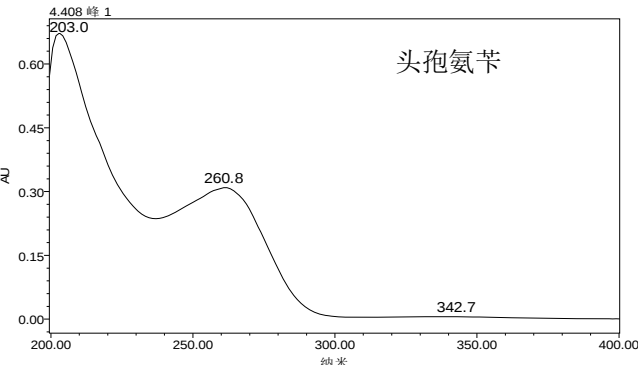
头孢唑林	024-1	274.7	 Chromatogram for Cefazolin (头孢唑林). The y-axis is labeled AU (Absorbance Units) and ranges from 0.00 to 0.60. The x-axis ranges from 200.00 to 350.00. A major peak is labeled at 274.7 minutes. A smaller peak is labeled at 203.4 minutes. The plot is titled '1' with a value of 5.686.
头孢西丁	025-1	237.8	 Chromatogram for Cefprozil (头孢西丁). The y-axis is labeled AU (Absorbance Units) and ranges from 0.00 to 0.60. The x-axis ranges from 200.00 to 350.00. A major peak is labeled at 237.8 minutes. A smaller peak is labeled at 203.4 minutes. The plot is titled '1' with a value of 5.814.
头孢替唑	026-1	274.7	 Chromatogram for Cefprozil (头孢替唑). The y-axis is labeled AU (Absorbance Units) and ranges from 0.00 to 0.60. The x-axis ranges from 200.00 to 350.00. A major peak is labeled at 274.7 minutes. A smaller peak is labeled at 204.5 minutes. The plot is titled '1' with a value of 5.010.
头孢呋辛	027-1	275.9	 Chromatogram for Cefuroxime (头孢呋辛). The y-axis is labeled AU (Absorbance Units) and ranges from 0.00 to 0.40. The x-axis ranges from 200.00 to 350.00. A major peak is labeled at 275.9 minutes. A smaller peak is labeled at 203.4 minutes. The plot is titled '1' with a value of 5.503.

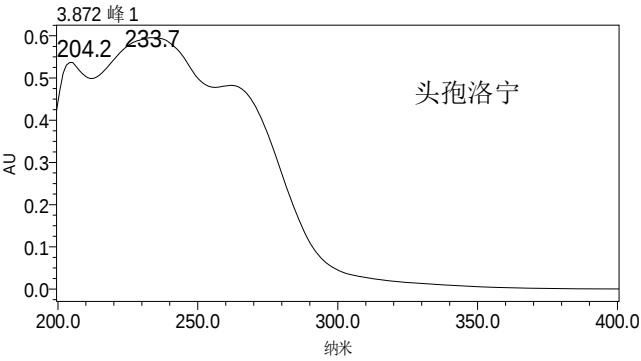
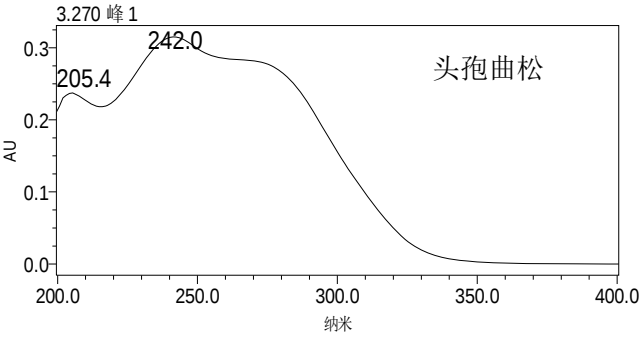
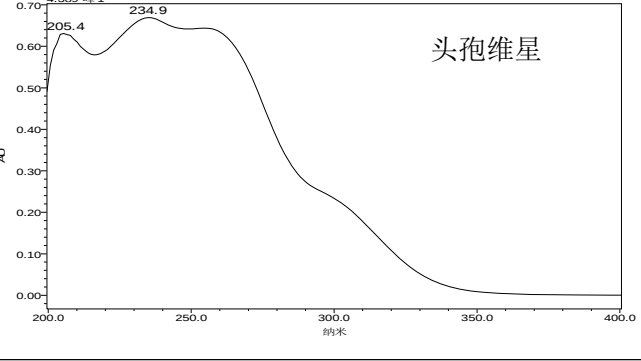
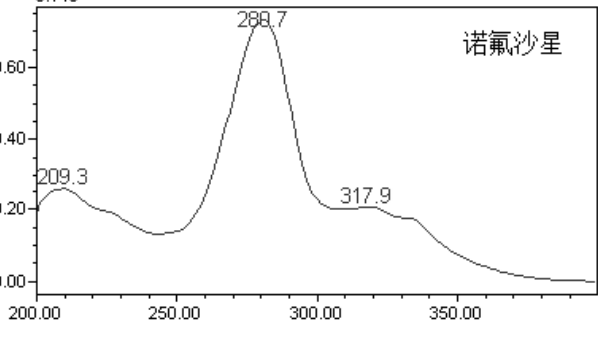
头孢呋辛酯	028-1	288.7	 Chromatogram for Cefuroxime Ester (头孢呋辛酯). The x-axis represents time in minutes (200.00 to 350.00), and the y-axis represents absorbance units (AU) (0.00 to 0.40). The major peak is at 288.7 minutes. Other labeled peaks are at 8.342, 203.4, and 266.7 minutes.
头孢甲肟	029-1	234.2	 Chromatogram for Cefprozil (头孢甲肟). The x-axis represents time in minutes (200.00 to 350.00), and the y-axis represents absorbance units (AU) (0.00 to 0.40). The major peak is at 234.2 minutes. Other labeled peaks are at 5.796, 203.4, and 266.4 minutes.
头孢克洛	030-1	266.4 332.3	 Chromatogram for Cefaclor (头孢克洛). The x-axis represents time in minutes (200.00 to 350.00), and the y-axis represents absorbance units (AU) (0.00 to 0.40). The major peaks are at 266.4 and 332.3 minutes. Other labeled peaks are at 5.683 and 203.4 minutes.
头孢克肟	031-1	234.2 290.3	 Chromatogram for Cefixime (头孢克肟). The x-axis represents time in minutes (200.00 to 350.00), and the y-axis represents absorbance units (AU) (0.00 to 1.00). The major peaks are at 234.2 and 290.3 minutes. Other labeled peaks are at 4.177, 206.9, and 266.3 minutes.

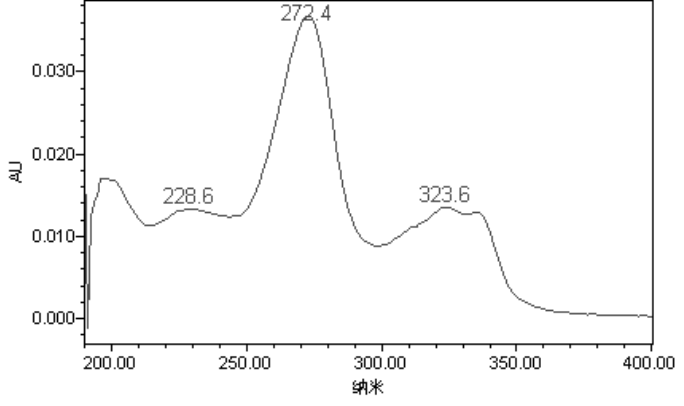
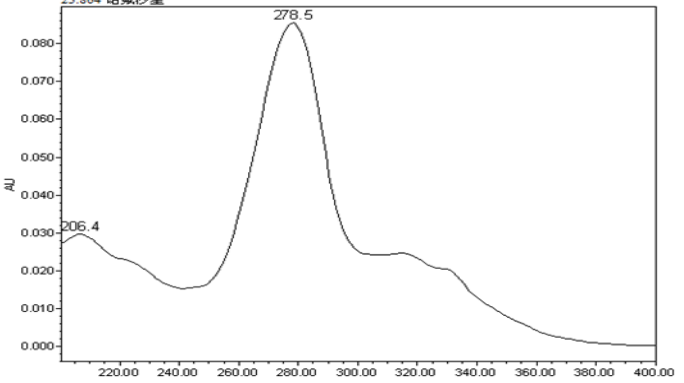
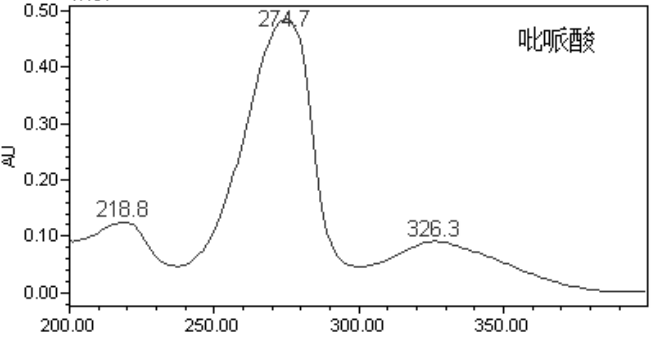
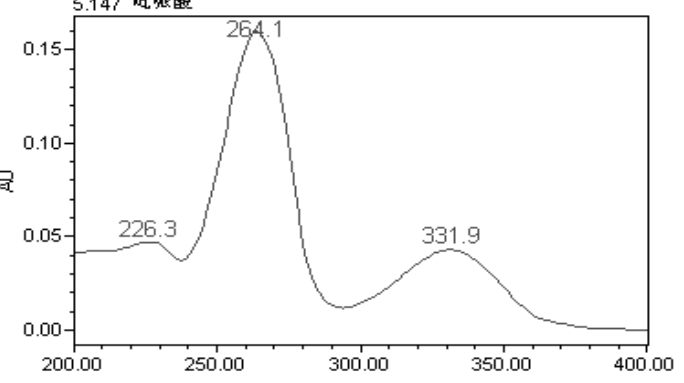
头孢 喹肟	032-1	236.6 268.8	Chromatogram for Cefquinome (头孢喹肟) showing peaks at 5.265, 204.5, 236.6, and 268.8 minutes. The y-axis is AU (0.00 to 1.00) and the x-axis is time (200.00 to 350.00).
头孢 拉定	033-1	264.0 344.1	Chromatogram for Cefradine (头孢拉定) showing peaks at 6.135, 203.4, 264.0, and 344.1 minutes. The y-axis is AU (0.00 to 0.60) and the x-axis is time (200.00 to 350.00).
头孢 硫脒	034-1	211.7 334.7	Chromatogram for Cefthiame (头孢硫脒) showing peaks at 6.973, 211.7, and 334.7 minutes. The y-axis is AU (0.00 to 1.00) and the x-axis is time (200.00 to 350.00).
头孢 美他 酯	035-1	236.6	Chromatogram for Cefmetazole (头孢美他酯) showing peaks at 9.863, 203.4, and 236.6 minutes. The y-axis is AU (0.00 to 0.60) and the x-axis is time (200.00 to 350.00).

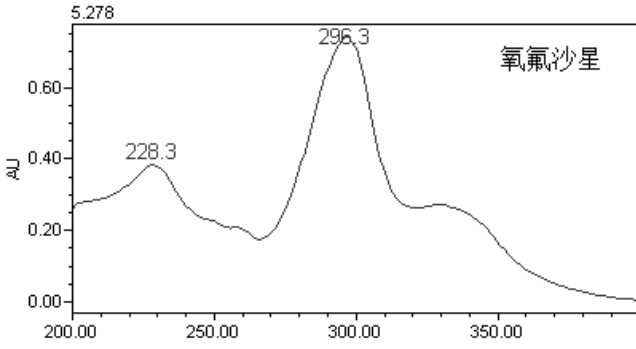
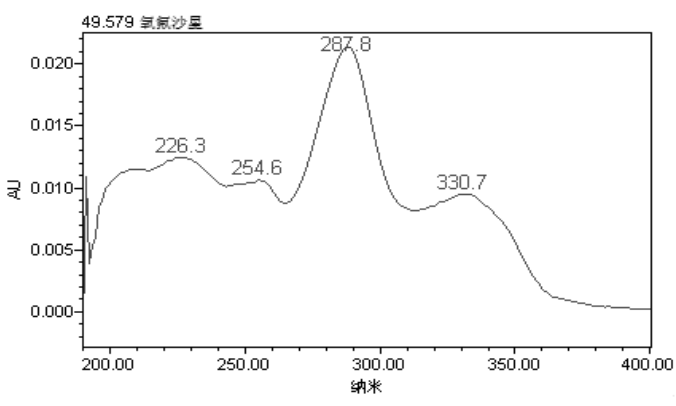
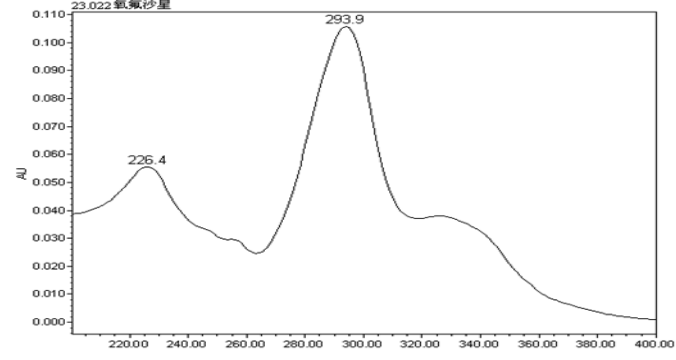
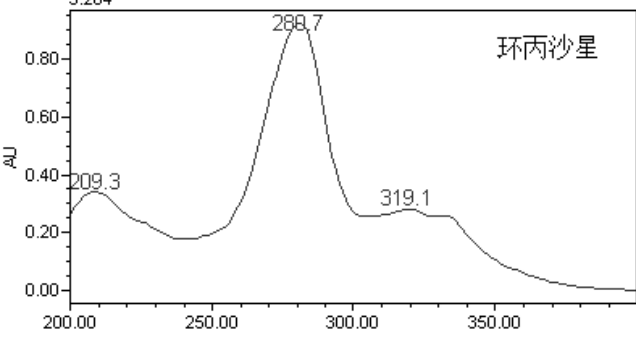
头孢美唑	036-1	241.3 274.7	Chromatogram for Cefamezole (头孢美唑) showing peaks at 5.273, 203.4, 241.3, and 274.7 minutes. The y-axis is AU (0.00 to 0.40) and the x-axis is time (200.00 to 350.00).
头孢孟多酯	037-1	271.1 348.7	Chromatogram for Cefamandole (头孢孟多酯) showing peaks at 7.869, 204.5, 271.1, and 348.7 minutes. The y-axis is AU (0.00 to 0.80) and the x-axis is time (200.00 to 350.00).
头孢尼西	038-1	270.0	Chromatogram for Cefonicid (头孢尼西) showing peaks at 4.487, 203.4, and 270.0 minutes. The y-axis is AU (0.00 to 0.40) and the x-axis is time (200.00 to 350.00).
头孢哌酮	039-1	230.6 270.0	Chromatogram for Cefoperazone (头孢哌酮) showing peaks at 6.294, 202.2, 230.6, and 270.0 minutes. The y-axis is AU (0.00 to 0.60) and the x-axis is time (200.00 to 350.00).

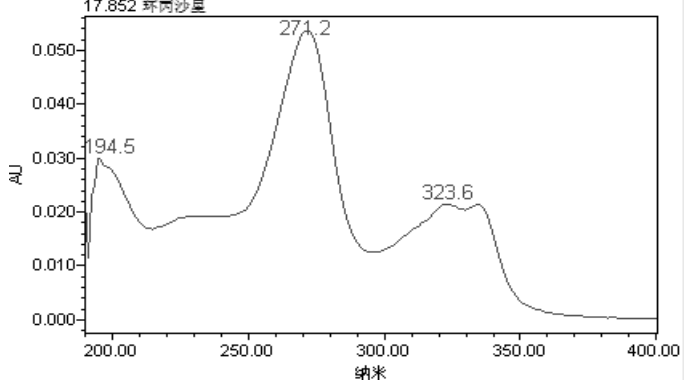
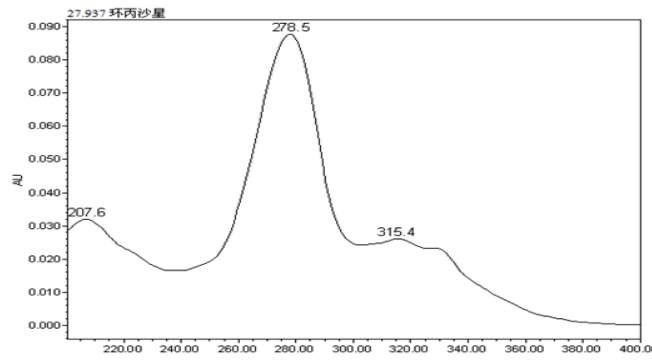
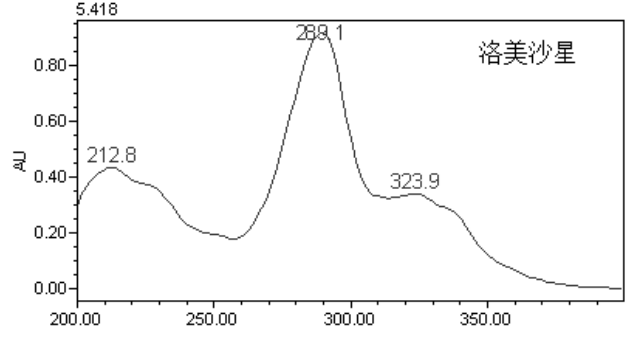
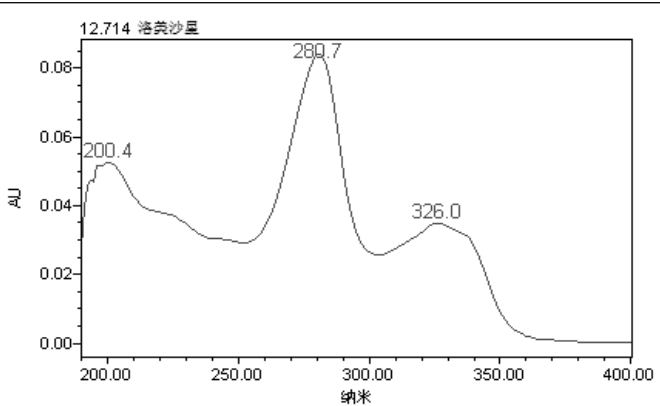
头孢匹胺	040-1	212.8 275.9	Chromatogram for Cefepime (头孢匹胺) showing two peaks at 212.8 and 275.9 minutes. The y-axis is AU (0.00 to 0.80) and the x-axis is time (200.00 to 350.00).
头孢羟氨苄	041-1	231.8 265.2 341.8	Chromatogram for Cefadroxil (头孢羟氨苄) showing three peaks at 231.8, 265.2, and 341.8 minutes. The y-axis is AU (0.00 to 1.50) and the x-axis is time (200.00 to 350.00).
头孢噻吩	042-1	239.0 329.9	Chromatogram for Cefadroxil (头孢噻吩) showing two peaks at 239.0 and 329.9 minutes. The y-axis is AU (0.00 to 0.40) and the x-axis is time (200.00 to 350.00).
头孢噻唑	043-1	236.6 268.8	Chromatogram for Cefadroxil (头孢噻唑) showing two peaks at 236.6 and 268.8 minutes. The y-axis is AU (0.00 to 1.00) and the x-axis is time (200.00 to 350.00).

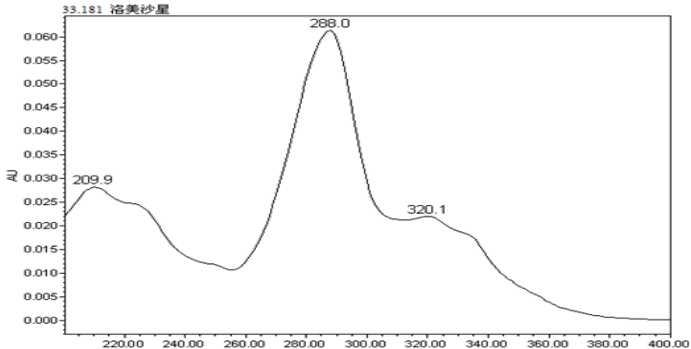
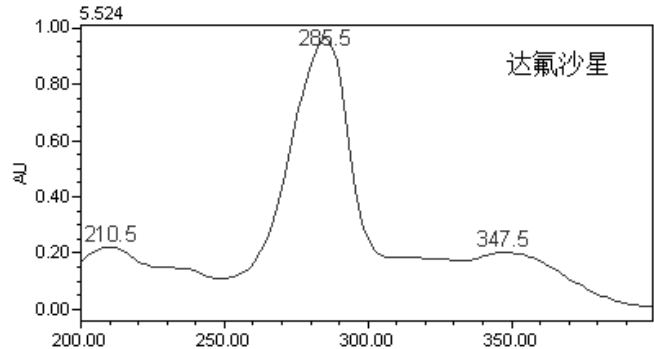
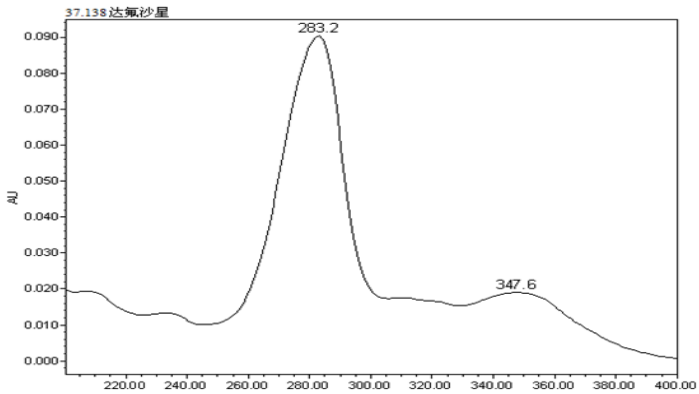
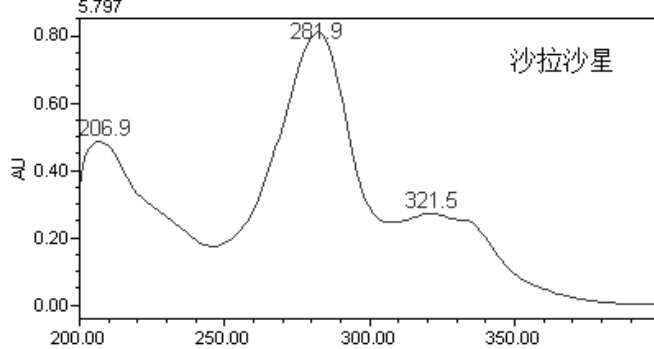
头孢噻肟	044-1	237.8	 5.636 1 204.5 237.8 AU 0.60 0.40 0.20 0.00 200.00 250.00 300.00 350.00 头孢噻肟
头孢他啶	045-1	258.0	 3.876 1 203.4 258.0 AU 0.60 0.40 0.20 0.00 200.00 250.00 300.00 350.00 头孢他啶
头孢替安	046-1	261.6	 4.662 1 203.4 261.6 AU 0.60 0.40 0.20 0.00 200.00 250.00 300.00 350.00 头孢替安
头孢氨苄	047-1	260.8 342.7	 4.408 峰 1 203.0 260.8 342.7 AU 0.60 0.45 0.30 0.15 0.00 200.00 250.00 300.00 350.00 400.00 纳米 头孢氨苄

头孢洛宁	048-1	233.7	
头孢曲松	049-1	242.0	
头孢维星	050-1	234.9	
诺氟沙星	051-1	280.7 317.9	

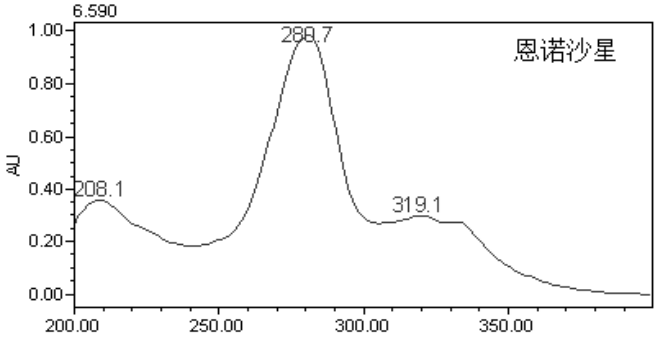
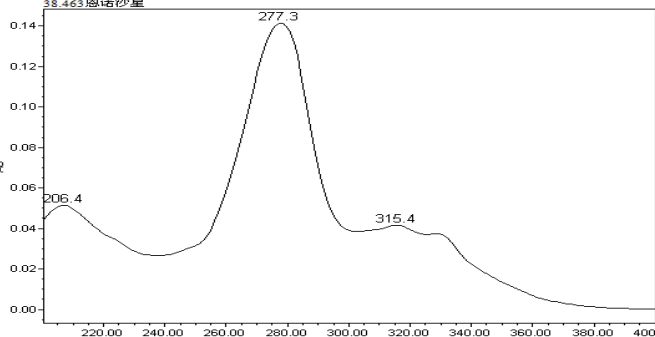
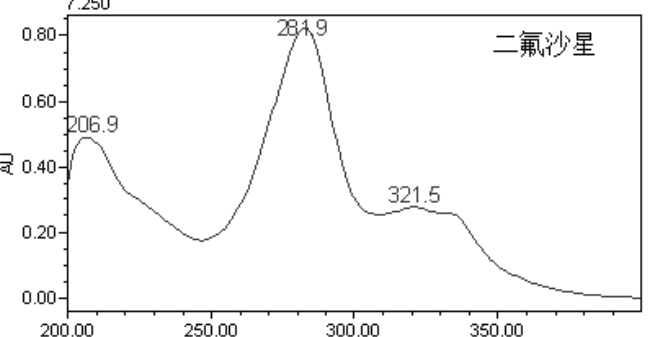
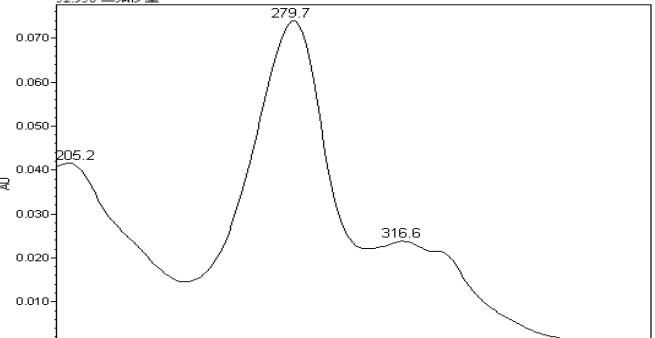
吡派酸	051-2	228.6 272.4 323.6	18.564 诺氟沙星 
	051-4	278.5	23.864 诺氟沙星 
	052-1	218.8 274.7 326.3	4.451 吡派酸 
	052-2	226.3 264.1 331.9	5.147 吡派酸 

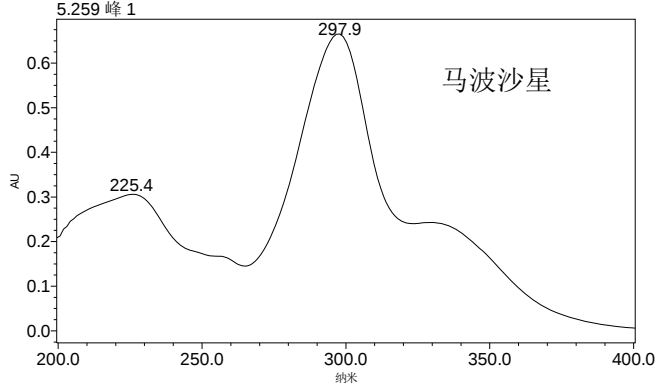
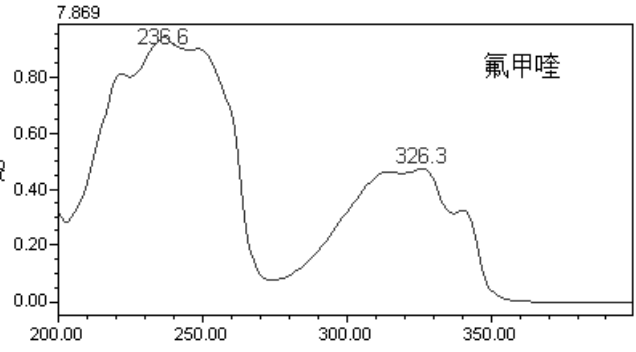
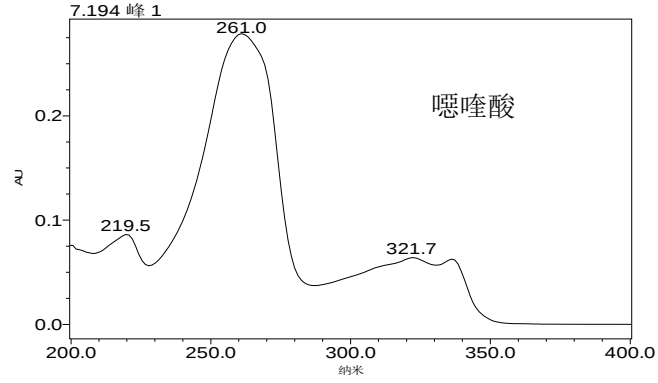
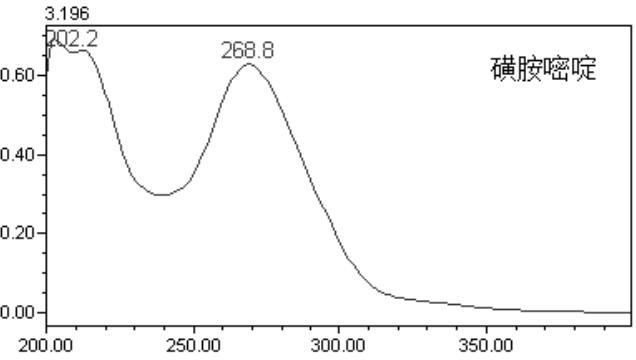
氧氟沙星	053-1	228.3 296.3	
	053-2	226.3 254.6 287.8 330.7	
	053-4	226.4 293.9	
环丙沙星	054-1	280.7 319.1	

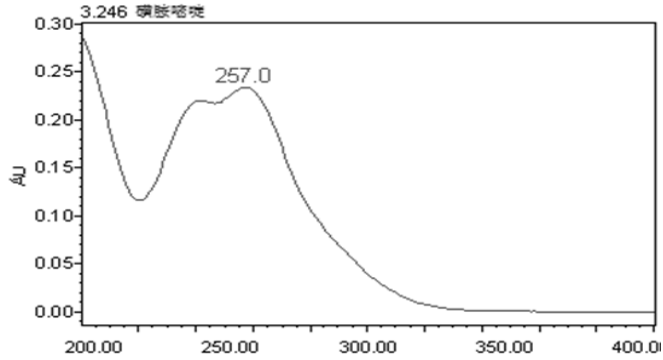
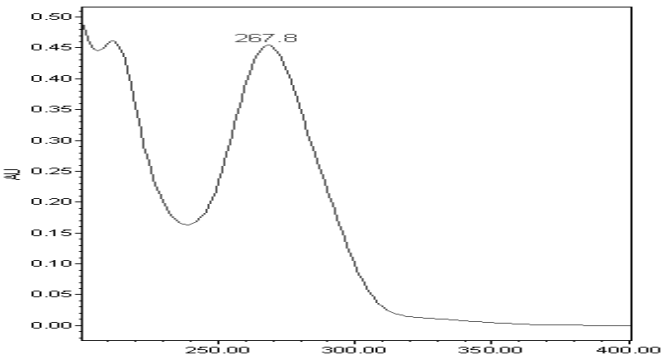
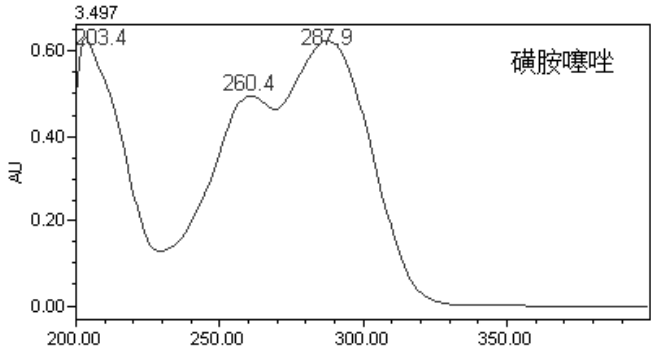
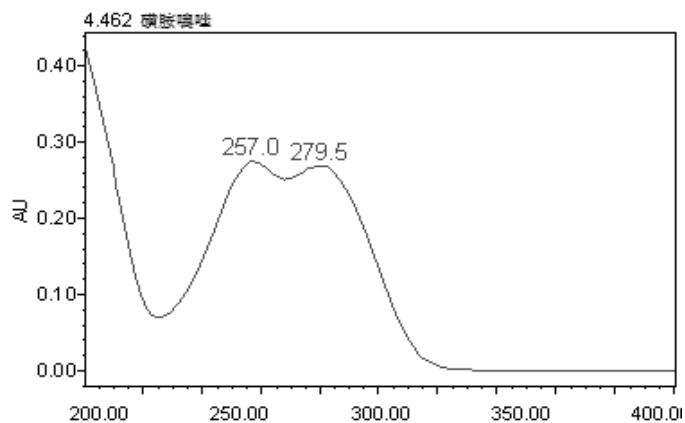
	054-2	271.2 323.6	17.852 环丙沙星  AU 0.050 0.040 0.030 0.020 0.010 0.000 200.00 250.00 300.00 350.00 400.00 纳米
	054-4	278.5 315.4	27.937 环丙沙星  AU 0.090 0.080 0.070 0.060 0.050 0.040 0.030 0.020 0.010 0.000 220.00 240.00 260.00 280.00 300.00 320.00 340.00 360.00 380.00 400.00
洛美沙星	055-1	212.8 289.1 323.9	5.418 洛美沙星  AU 0.80 0.60 0.40 0.20 0.00 200.00 250.00 300.00 350.00
	055-2	280.7 326.0	12.714 洛美沙星  AU 0.08 0.06 0.04 0.02 0.00 200.00 250.00 300.00 350.00 400.00 纳米

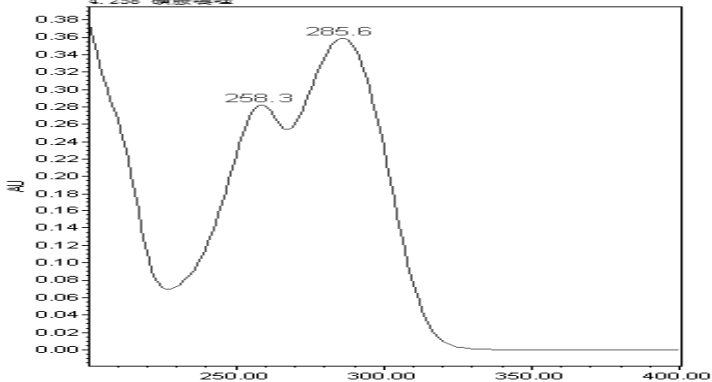
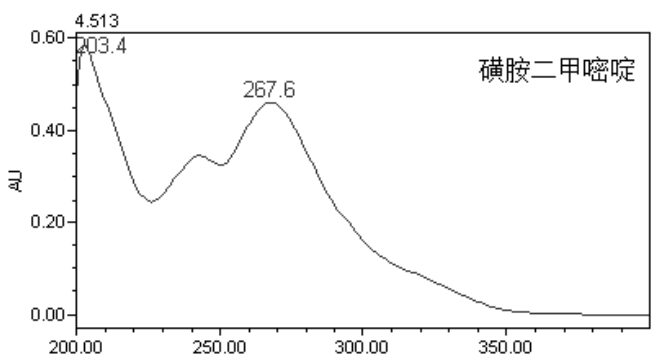
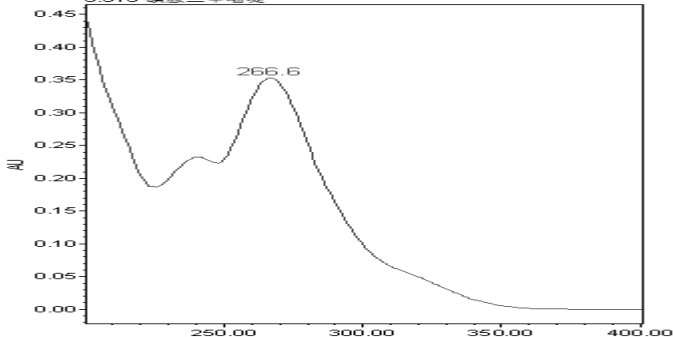
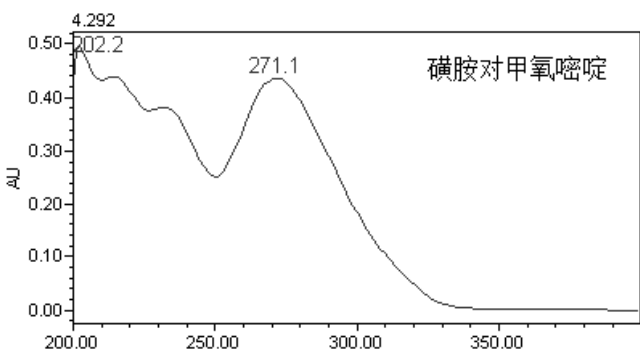
	055-4	288.0 320.1	
达氟沙星	056-1	210.5 285.5 347.5	
	056-2		60 分钟不出峰
	056-4	283.2 347.6	
沙拉沙星	057-1	281.9 321.5	

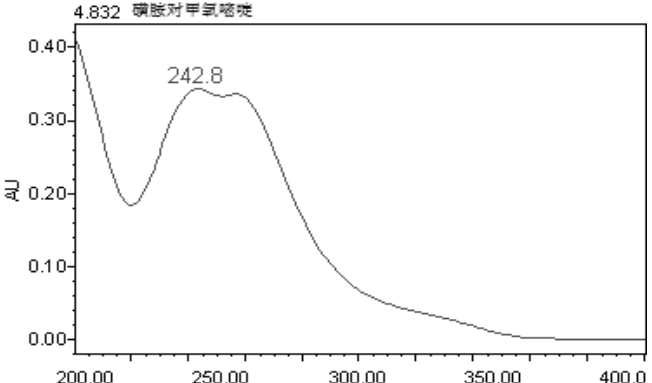
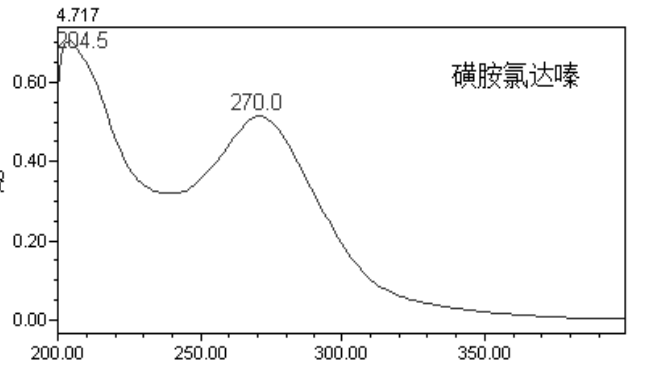
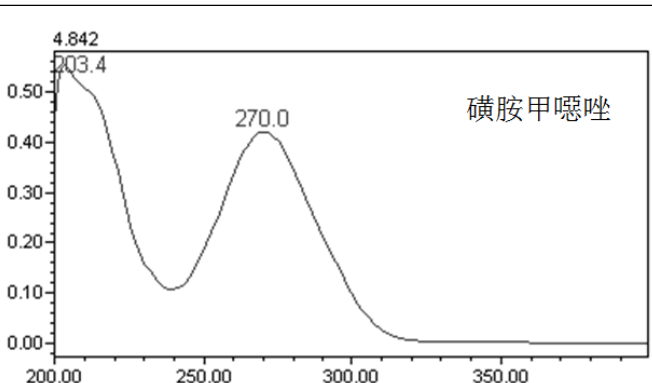
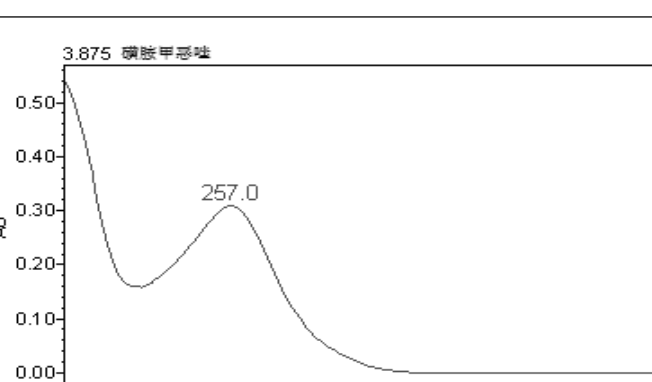
	057-2	232.2 273.6 323.6	20.498 沙拉沙星
	057-4	280.8 316.6	50.726 沙拉沙星
培氟沙星	058-1	280.7 319.1	6.132 培氟沙星
	058-2		60 分钟不出峰
	058-4	277.3 315.4	25.862 培氟沙星

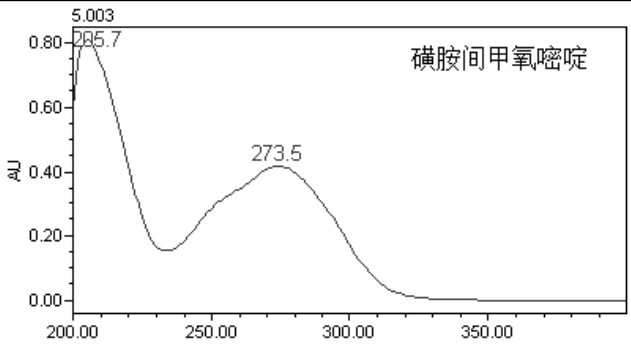
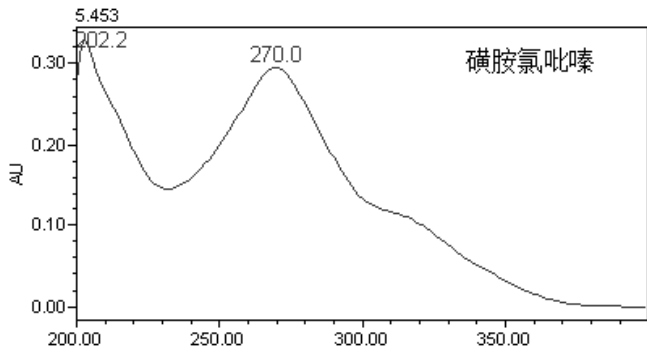
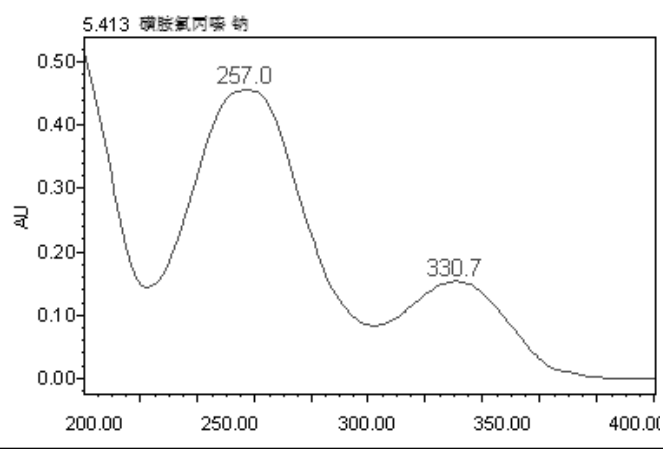
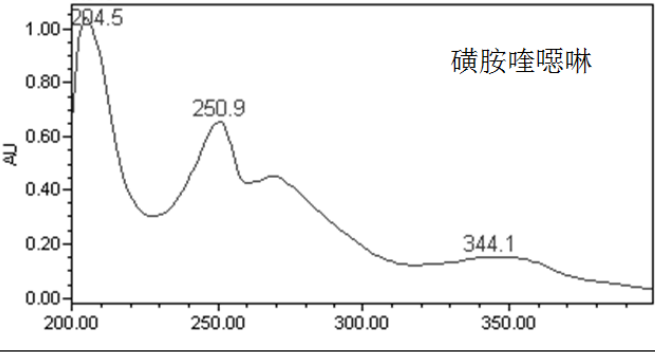
恩诺沙星	059-1	280.7 319.1	
	059-2		120 分钟以后出峰
	059-4	277.3 315.4	
二氟沙星	060-1	281.9 321.5	
	060-2		60 分钟不出峰
	060-4	279.7 316.6	

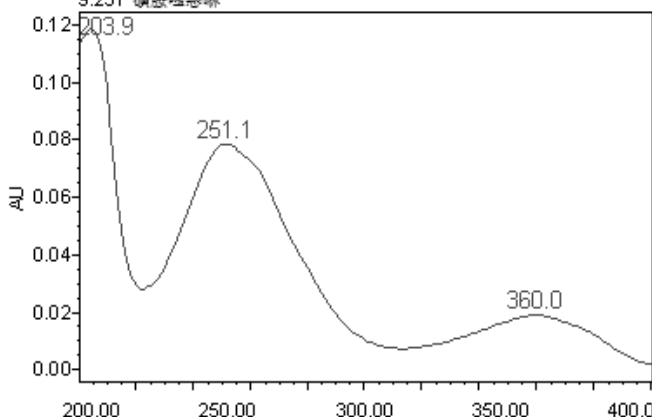
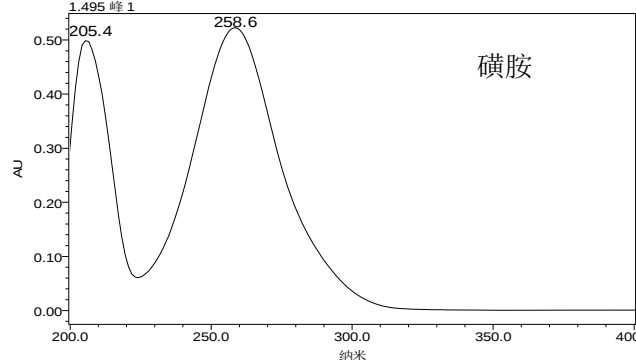
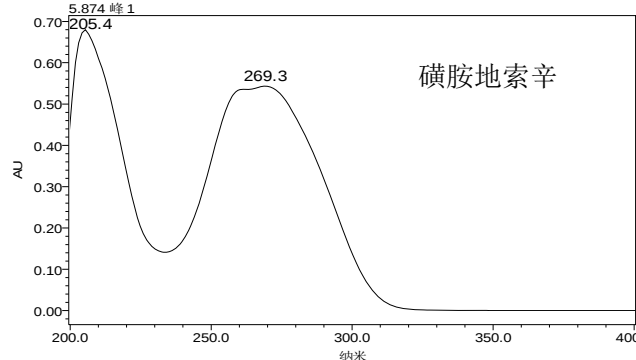
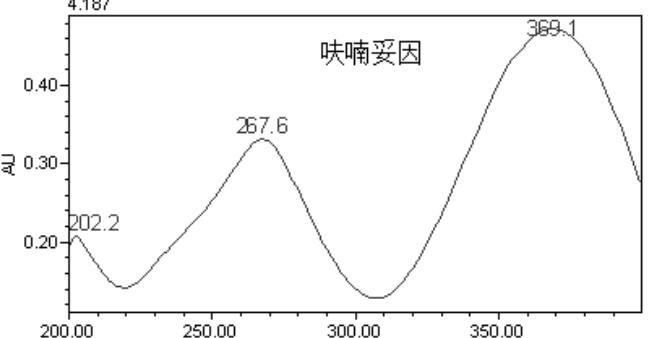
马波沙星	061-1	225.4 297.9	
氟甲喹	062-1	236.6 326.3	
噁嗪酸	063-1	219.5 261.0 321.7	
磺胺嘧啶	064-1	268.8	

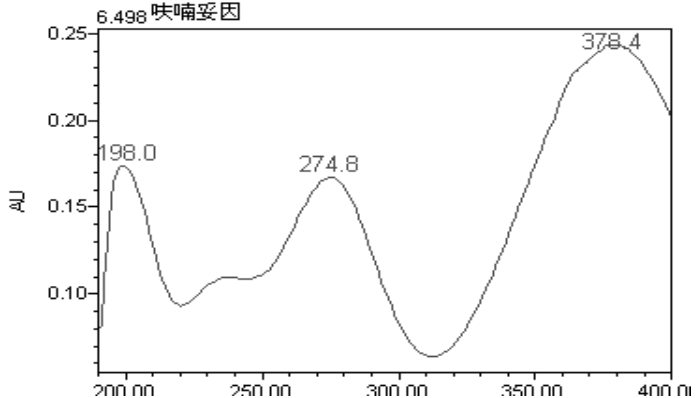
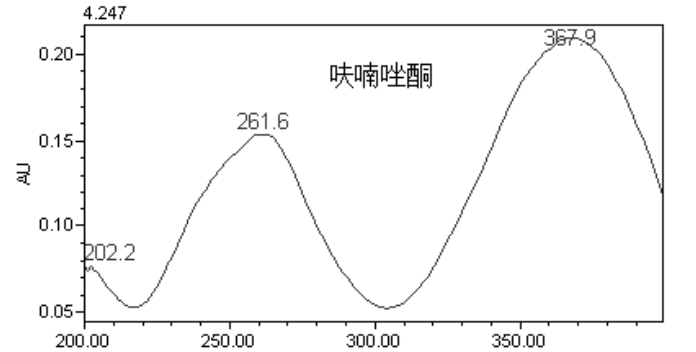
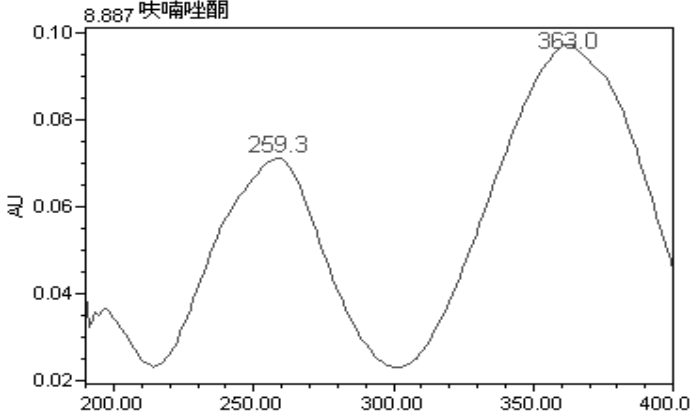
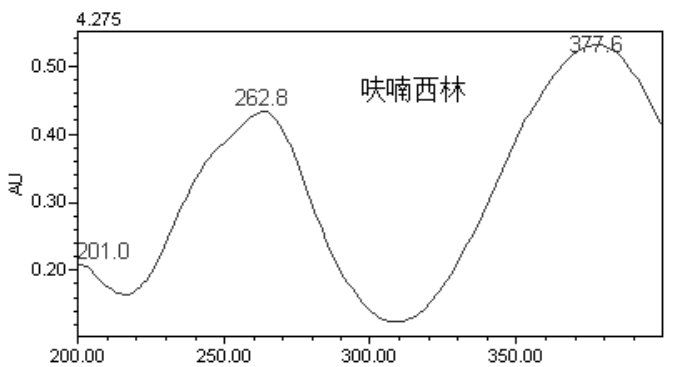
	064-2	257.0	
	064-3	267.8	
磺胺嘧啶	065-1	260.4 287.9	
	065-2	257.0 279.5	

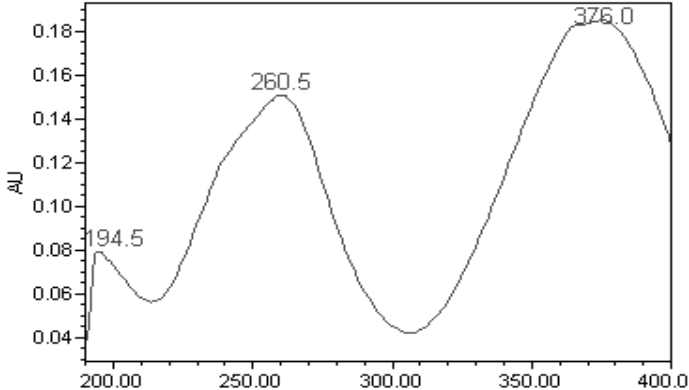
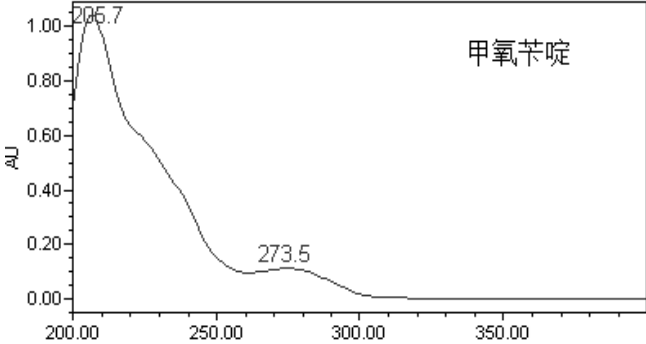
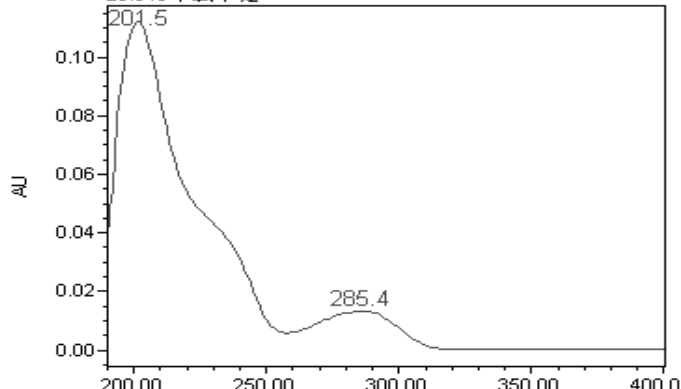
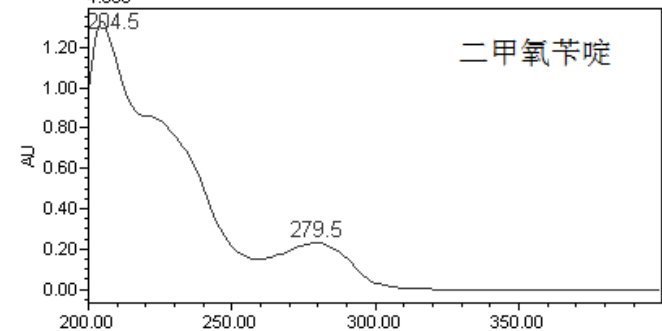
	065-3	258.3 285.6	 UV spectrum of 4.256 磺胺嘧啶 (Sulfadiazine). The x-axis represents wavelength in nm (200.00 to 400.00) and the y-axis represents absorbance (AU) (0.00 to 0.38). The spectrum shows two distinct peaks: one at 258.3 nm (AU ≈ 0.28) and a higher peak at 285.6 nm (AU ≈ 0.36).
磺胺二甲嘧啶	066-1	267.6	 UV spectrum of 4.513 磺胺二甲嘧啶 (Sulfadimethidine). The x-axis represents wavelength in nm (200.00 to 400.00) and the y-axis represents absorbance (AU) (0.00 to 0.60). The spectrum shows a peak at 267.6 nm (AU ≈ 0.48). There is also a small peak at 203.4 nm (AU ≈ 0.58).
	066-3	266.6	 UV spectrum of 5.915 磺胺二甲嘧啶 (Sulfadimethidine). The x-axis represents wavelength in nm (200.00 to 400.00) and the y-axis represents absorbance (AU) (0.00 to 0.45). The spectrum shows a peak at 266.6 nm (AU ≈ 0.35).
磺胺对甲氧嘧啶	067-1	271.1	 UV spectrum of 4.292 磺胺对甲氧嘧啶 (Sulfamonomethoxine). The x-axis represents wavelength in nm (200.00 to 400.00) and the y-axis represents absorbance (AU) (0.00 to 0.50). The spectrum shows a peak at 271.1 nm (AU ≈ 0.43). There is also a small peak at 202.2 nm (AU ≈ 0.48).

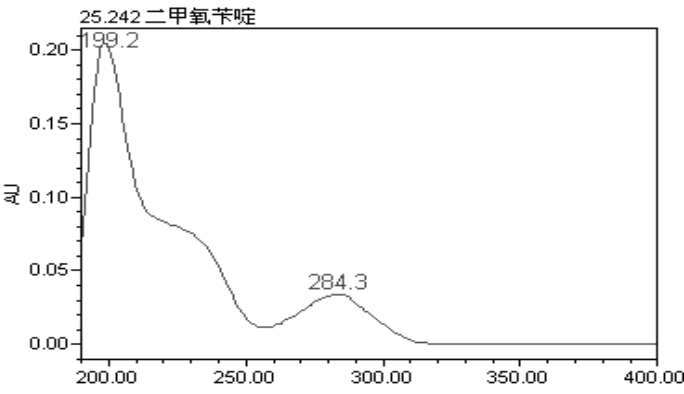
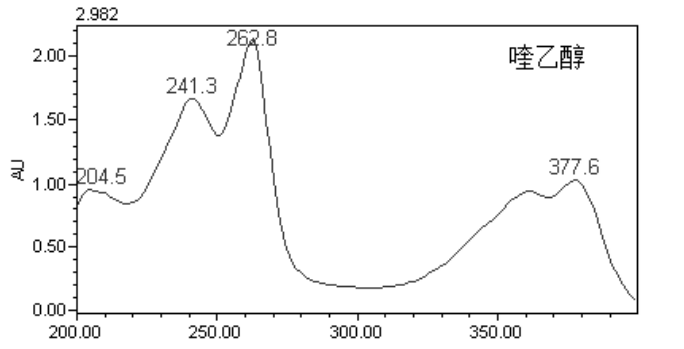
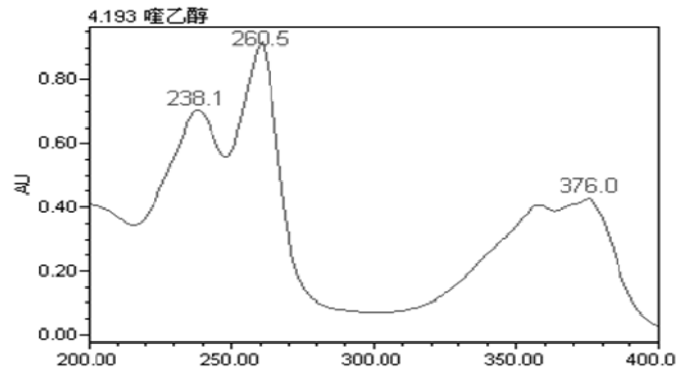
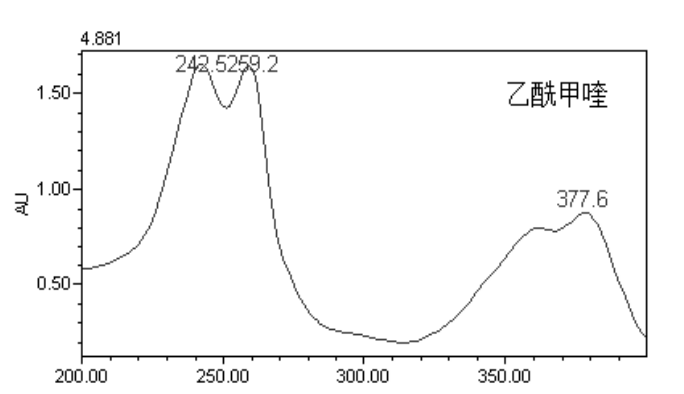
	067-2	242.8	
磺胺氯达嗪	068-1	270.0	
磺胺甲噁唑	069-1	270.0	
	069-2	257.0	

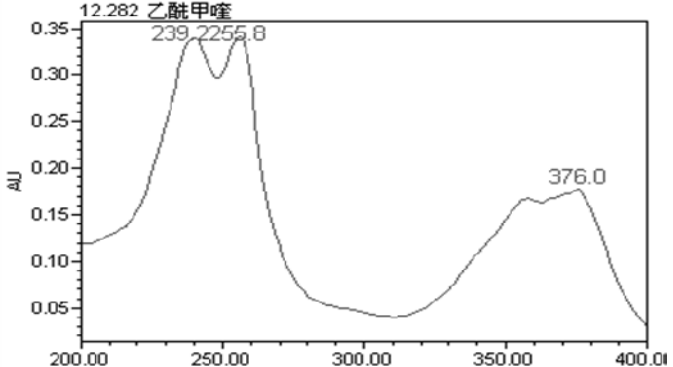
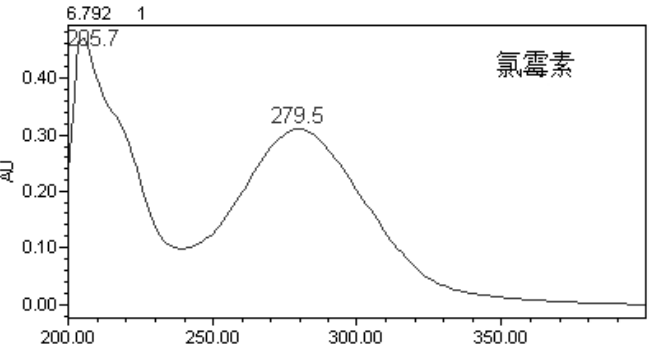
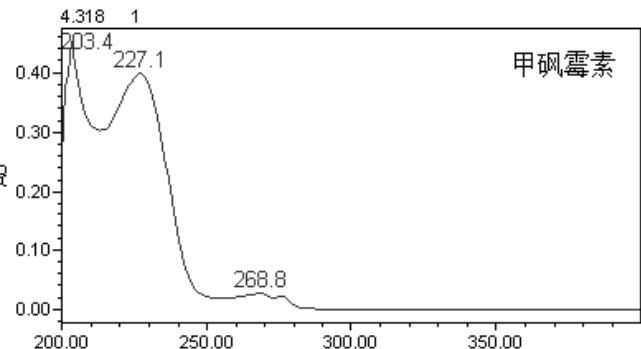
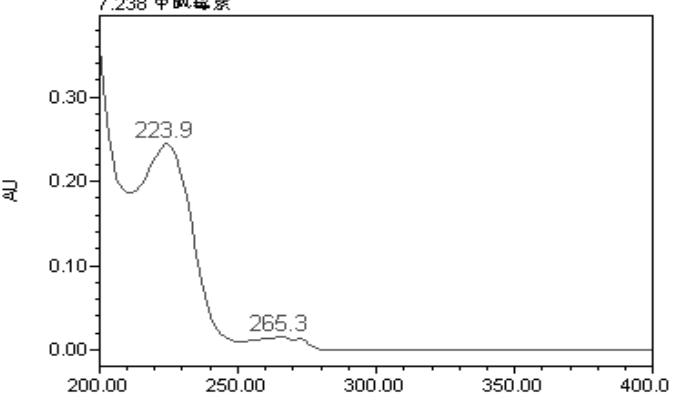
磺胺间甲氧嘧啶	070-1	273.5	 磺胺间甲氧嘧啶 5.003 202.2 273.5
磺胺氯吡嗪	071-1	270.0	 磺胺氯吡嗪 5.453 202.2 270.0
	071-2	257.0 330.7	 磺胺氯吡嗪钠 5.413 257.0 330.7
磺胺喹噁啉	072-1	250.9 344.1	 磺胺喹噁啉 6.346 250.9 344.1

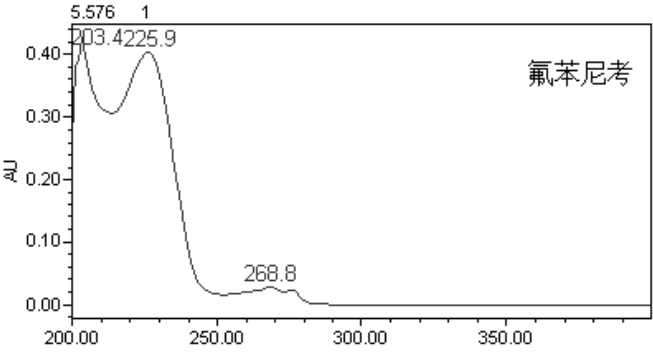
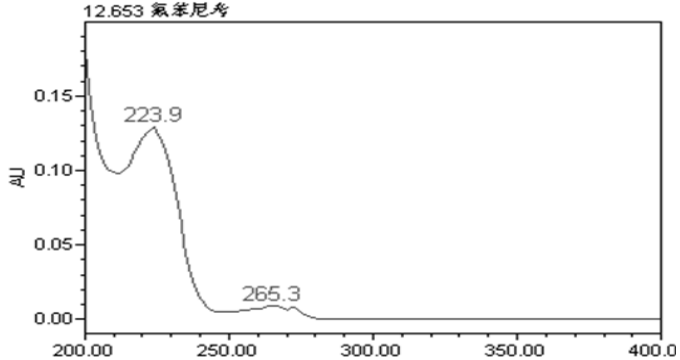
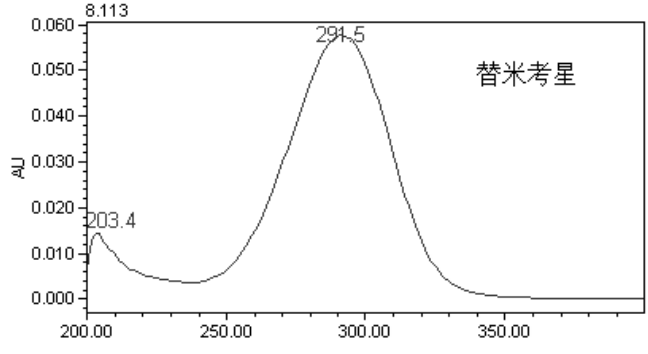
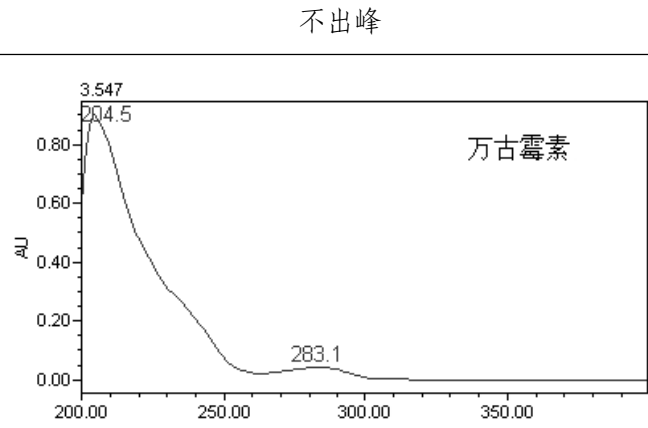
	072-2	251.1 360.0	9.251 磺胺嘧啶  UV spectrum of 磺胺嘧啶 (Sulfadiazine). The x-axis represents wavelength in nanometers (nm) from 200.00 to 400.00. The y-axis represents absorbance (AU) from 0.00 to 0.12. The spectrum shows three labeled peaks: 203.9 nm (highest absorbance, ~0.115), 251.1 nm (~0.075), and 360.0 nm (~0.02).
磺胺	073-1	258.6	1.495 峰 1  UV spectrum of 磺胺 (Sulfanilamide). The x-axis represents wavelength in nanometers (nm) from 200.0 to 400.0. The y-axis represents absorbance (AU) from 0.00 to 0.50. The spectrum shows two labeled peaks: 205.4 nm (~0.48) and 258.6 nm (~0.52). The text "磺胺" is present in the upper right of the plot area.
磺胺地索辛	074-1	269.3	5.874 峰 1  UV spectrum of 磺胺地索辛 (Sulfadiazine). The x-axis represents wavelength in nanometers (nm) from 200.0 to 400.0. The y-axis represents absorbance (AU) from 0.00 to 0.70. The spectrum shows two labeled peaks: 205.4 nm (~0.68) and 269.3 nm (~0.55). The text "磺胺地索辛" is present in the upper right of the plot area.
呋喃妥因	075-1	267.6 369.1	4.187  UV spectrum of 呋喃妥因 (Furazolidone). The x-axis represents wavelength in nanometers (nm) from 200.00 to 350.00. The y-axis represents absorbance (AU) from 0.20 to 0.40. The spectrum shows three labeled peaks: 202.2 nm (~0.22), 267.6 nm (~0.33), and 369.1 nm (~0.45). The text "呋喃妥因" is present in the upper right of the plot area.

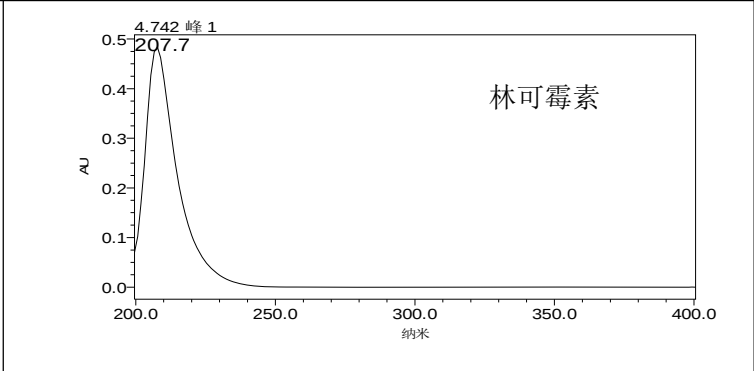
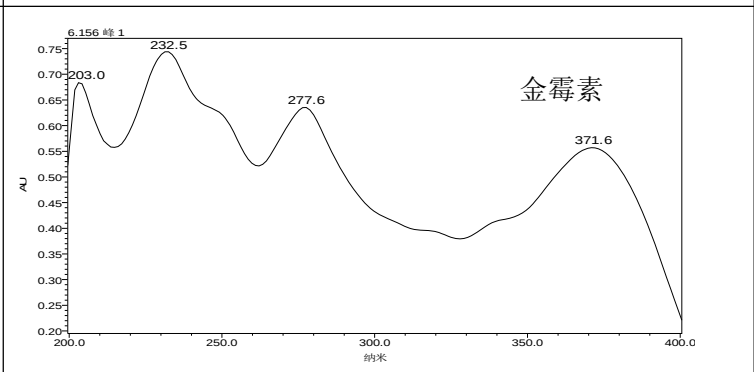
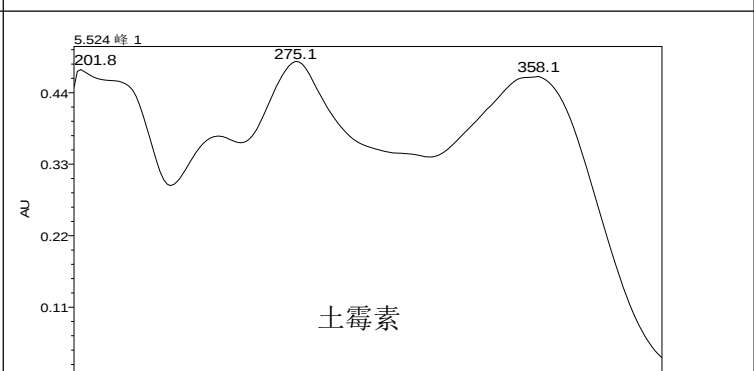
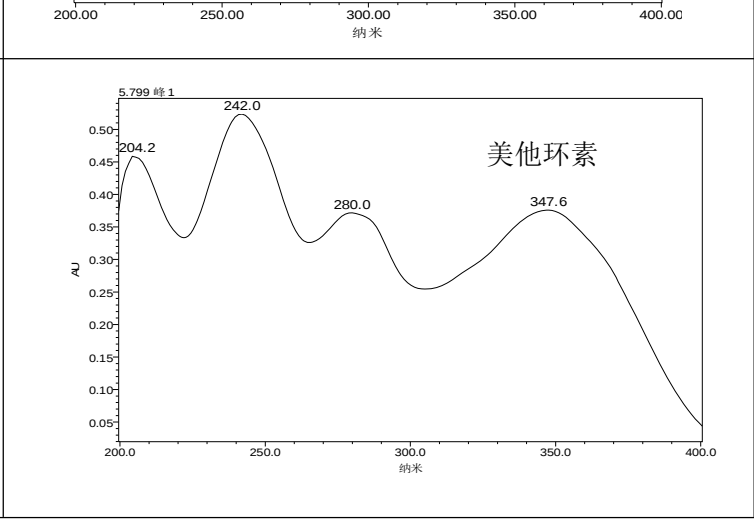
	075-2	274.8 378.4	 6.498 呋喃妥因 UV spectrum showing absorbance (AU) versus wavelength (nm). The spectrum displays three distinct peaks at 198.0 nm, 274.8 nm, and 378.4 nm. The y-axis ranges from 0.10 to 0.25 AU, and the x-axis ranges from 200.00 to 400.00 nm.
呋喃唑酮	076-1	261.6 367.9	 4.247 呋喃唑酮 UV spectrum showing absorbance (AU) versus wavelength (nm). The spectrum displays three distinct peaks at 202.2 nm, 261.6 nm, and 367.9 nm. The y-axis ranges from 0.05 to 0.20 AU, and the x-axis ranges from 200.00 to 400.00 nm.
	076-2	259.3 363.0	 8.887 呋喃唑酮 UV spectrum showing absorbance (AU) versus wavelength (nm). The spectrum displays two distinct peaks at 259.3 nm and 363.0 nm. The y-axis ranges from 0.02 to 0.10 AU, and the x-axis ranges from 200.00 to 400.00 nm.
呋喃西林	077-1	262.8 377.6	 4.275 呋喃西林 UV spectrum showing absorbance (AU) versus wavelength (nm). The spectrum displays three distinct peaks at 201.0 nm, 262.8 nm, and 377.6 nm. The y-axis ranges from 0.20 to 0.50 AU, and the x-axis ranges from 200.00 to 400.00 nm.

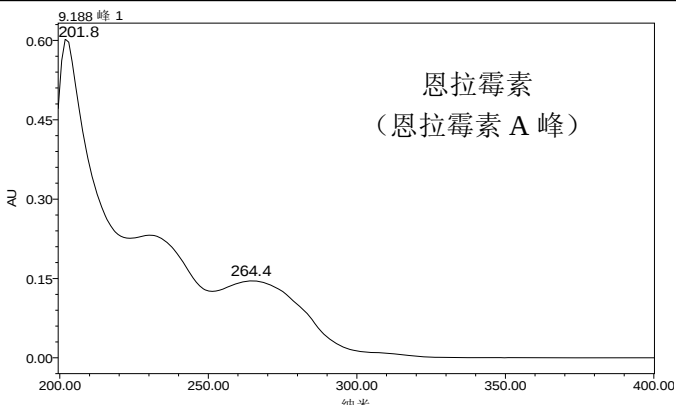
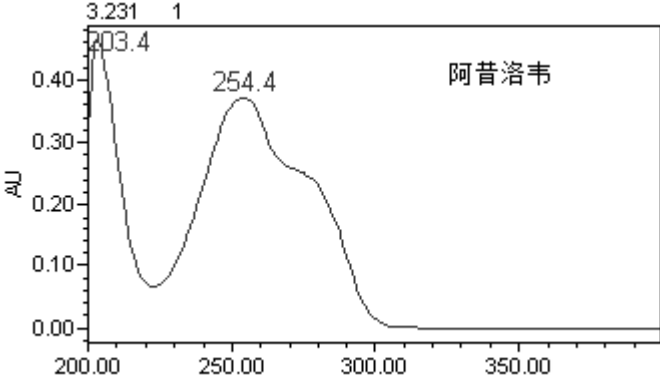
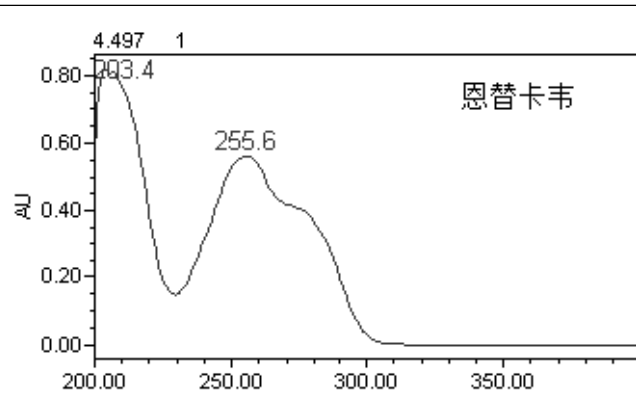
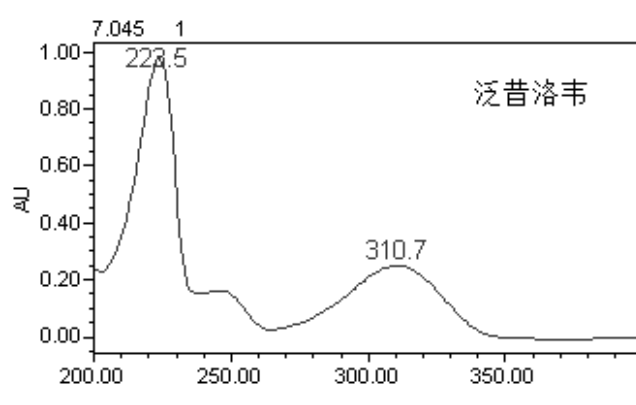
	077-2	260.5 376.0	9.362 呋喃西林  UV spectrum of Furazolidone (呋喃西林). The x-axis represents wavelength in nm (200.00 to 400.00), and the y-axis represents absorbance in AU (0.04 to 0.18). The spectrum shows three distinct peaks: a small peak at 194.5 nm, a medium peak at 260.5 nm, and a large peak at 376.0 nm.
甲氧苄啶	078-1	273.5	4.583 1 205.7 甲氧苄啶  UV spectrum of Methotrexate (甲氧苄啶). The x-axis represents wavelength in nm (200.00 to 350.00), and the y-axis represents absorbance in AU (0.00 to 1.00). The spectrum shows a sharp peak at 205.7 nm and a smaller peak at 273.5 nm.
	078-2	285.4	28.649 甲氧苄啶  UV spectrum of Methotrexate (甲氧苄啶). The x-axis represents wavelength in nm (200.00 to 400.00), and the y-axis represents absorbance in AU (0.00 to 0.10). The spectrum shows a sharp peak at 201.5 nm and a smaller peak at 285.4 nm.
二甲氧苄啶	079-1	279.5	4.338 254.5 二甲氧苄啶  UV spectrum of Dimethotrexate (二甲氧苄啶). The x-axis represents wavelength in nm (200.00 to 350.00), and the y-axis represents absorbance in AU (0.00 to 1.20). The spectrum shows a sharp peak at 254.5 nm and a smaller peak at 279.5 nm.

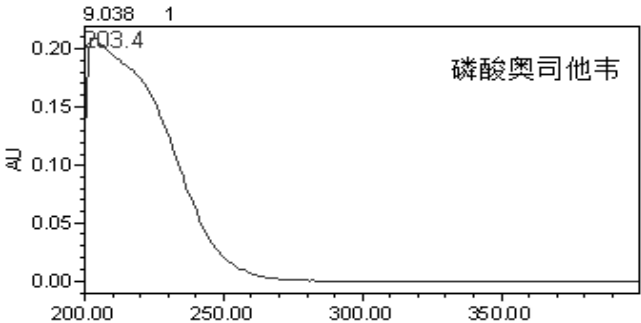
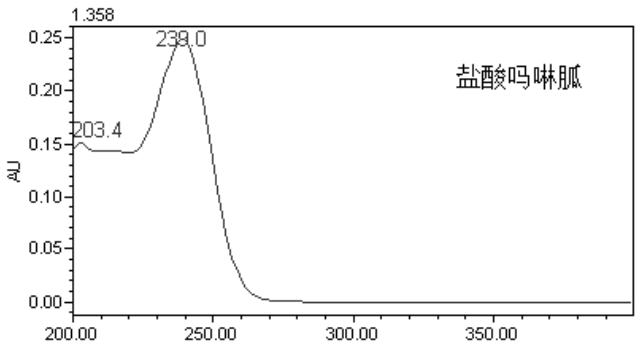
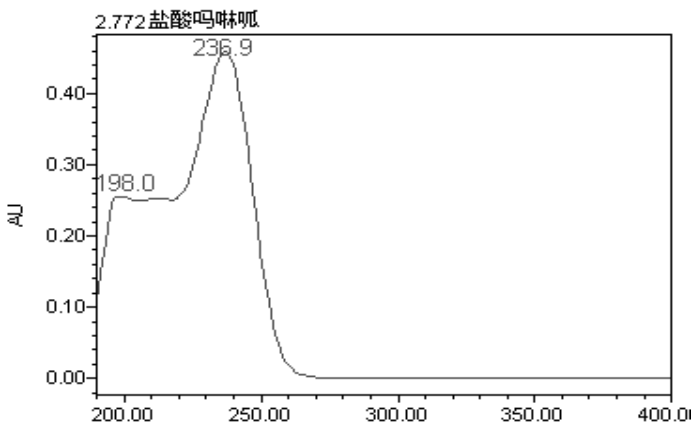
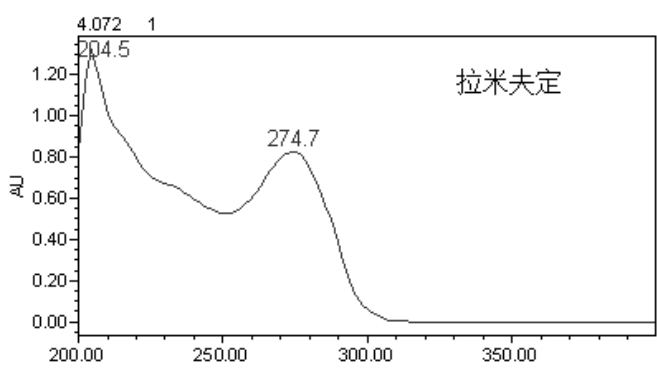
	079-2	284.3	
喹乙醇	080-1	241.3 262.8 377.6	
	080-2	238.1 260.5 376.0	
乙酰甲喹	081-1	242.5 259.2 377.6	

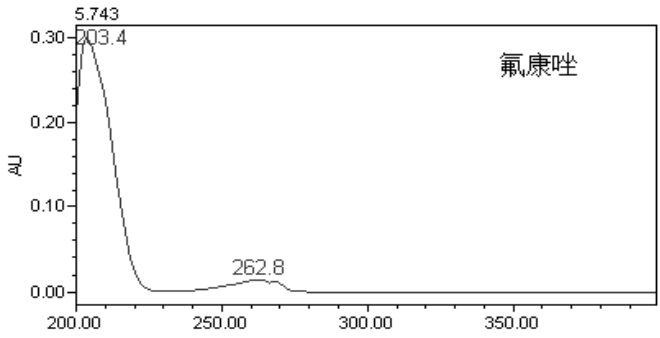
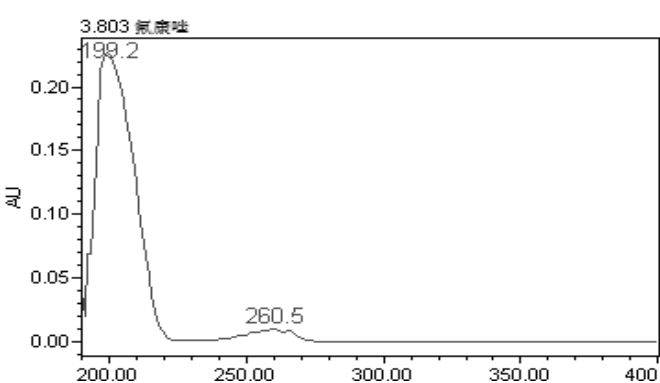
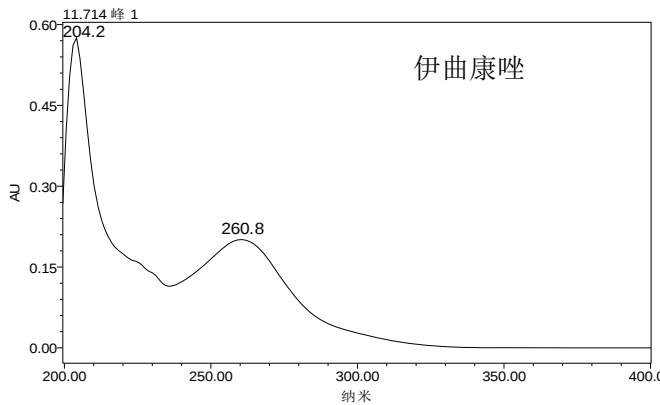
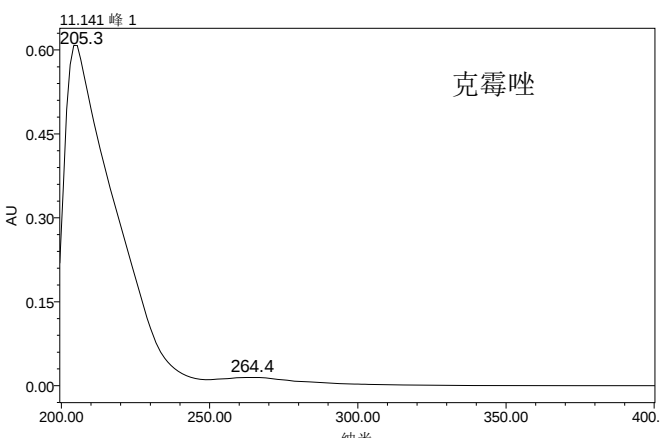
	081-2	239.2 255.8 376.0	
氯霉素	082-1	279.5	
	082-2		不出峰
甲砒霉素	083-1	227.1 268.8	
	083-2	223.9 265.3	

氟苯尼考	084-1	225.9 268.8	
	084-2	223.9 265.3	
替米考星	085-1	291.5	
	085-2		不出峰
万古霉素	086-1	283.1	
	086-2		不出峰

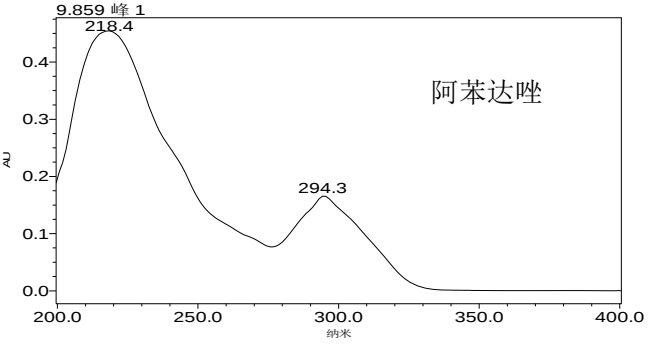
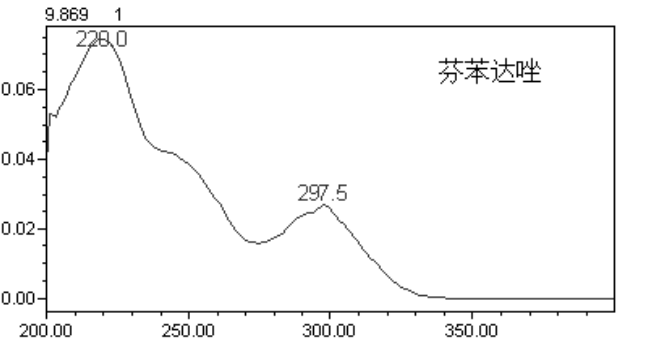
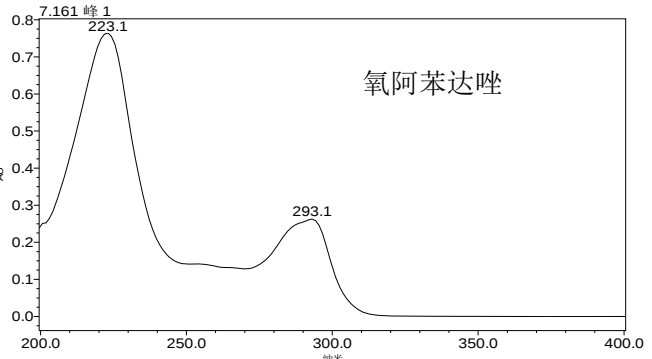
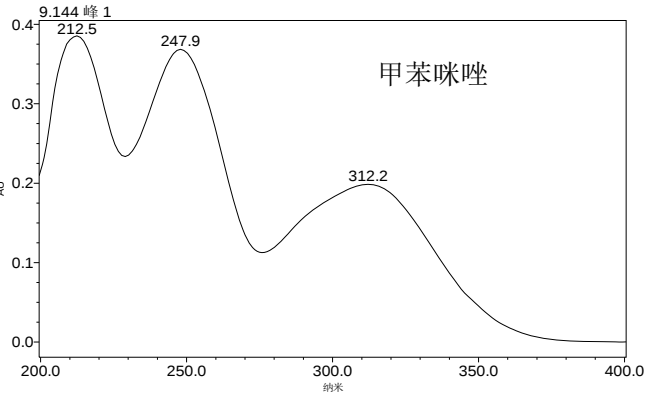
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金霉素	088-1	232.5 277.6 371.6	 金霉素 6.156 峰 1 203.0 232.5 277.6 371.6 AU 200.0 250.0 300.0 350.0 400.0 纳米
土霉素	089-1	275.1 358.1	 土霉素 5.524 峰 1 201.8 275.1 358.1 AU 200.00 250.00 300.00 350.00 400.00 纳米
美他环素	090-1	242.0 280.0 347.6	 美他环素 5.799 峰 1 204.2 242.0 280.0 347.6 AU 200.0 250.0 300.0 350.0 400.0 纳米

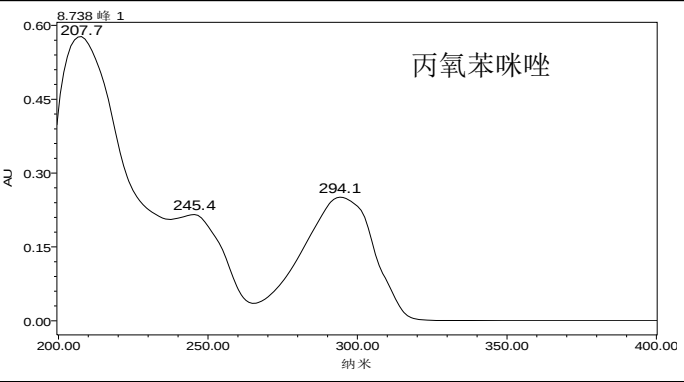
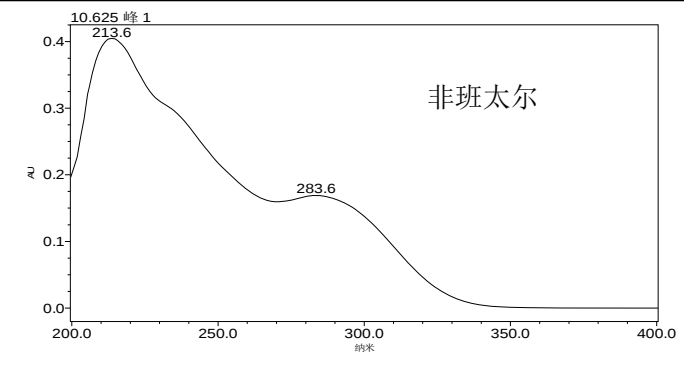
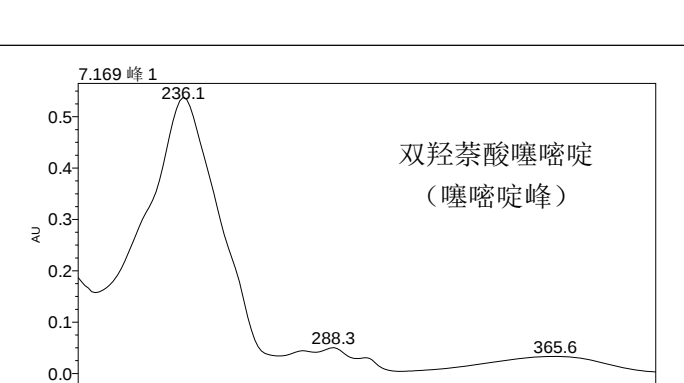
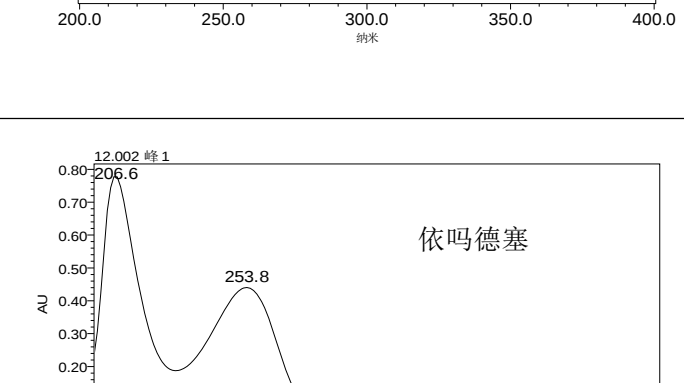
恩拉霉素	091-1	264.4	 恩拉霉素 (恩拉霉素 A 峰) 9.188 峰 1 201.8 264.4 AU 200.00 250.00 300.00 350.00 400.00 纳米
阿昔洛韦	092-1	254.4	 3.231 1 203.4 254.4 AU 200.00 250.00 300.00 350.00
恩替卡韦	093-1	255.6	 4.497 1 203.4 255.6 AU 200.00 250.00 300.00 350.00
泛昔洛韦	094-1	223.5 310.7	 7.045 1 223.5 310.7 AU 200.00 250.00 300.00 350.00

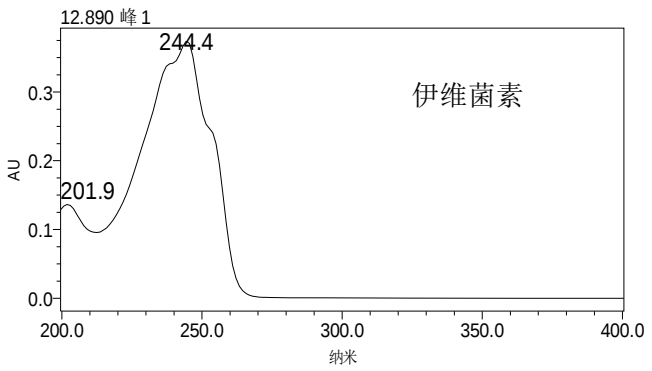
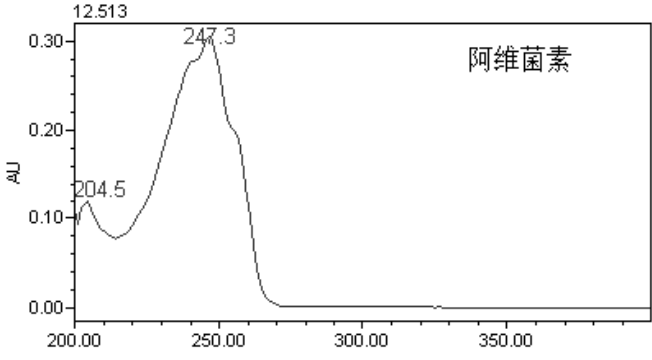
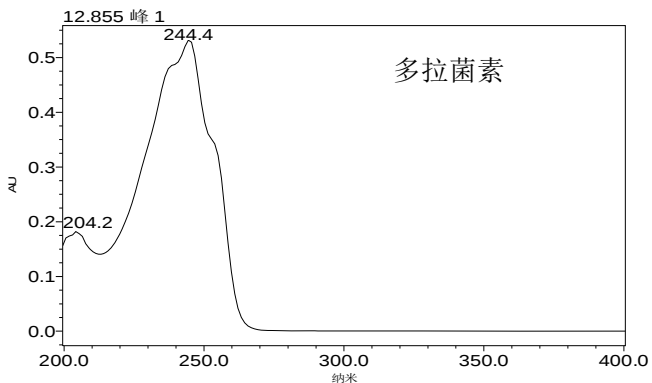
磷酸奥司他韦	095-1	203.4	 Chromatogram for 磷酸奥司他韦 (095-1) showing a single peak at 203.4 minutes. The y-axis is AU (0.00 to 0.20) and the x-axis is time (200.00 to 350.00). A label '9.038 1' is at the top left.
盐酸吗啉胍	096-1	239.0	 Chromatogram for 盐酸吗啉胍 (096-1) showing a peak at 239.0 minutes. The y-axis is AU (0.00 to 0.25) and the x-axis is time (200.00 to 350.00). A label '1.358' is at the top left.
	096-2	236.9	 Chromatogram for 盐酸吗啉胍 (096-2) showing a peak at 236.9 minutes. The y-axis is AU (0.00 to 0.40) and the x-axis is time (200.00 to 400.00). A label '2.772 盐酸吗啉胍' is at the top left.
拉米夫定	097-1	274.7	 Chromatogram for 拉米夫定 (097-1) showing a peak at 274.7 minutes. The y-axis is AU (0.00 to 1.20) and the x-axis is time (200.00 to 350.00). A label '4.072 1' is at the top left.

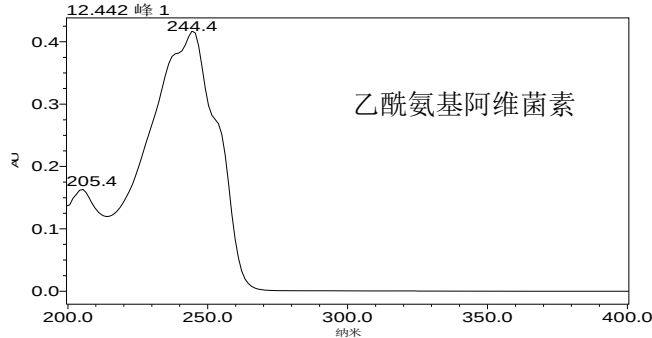
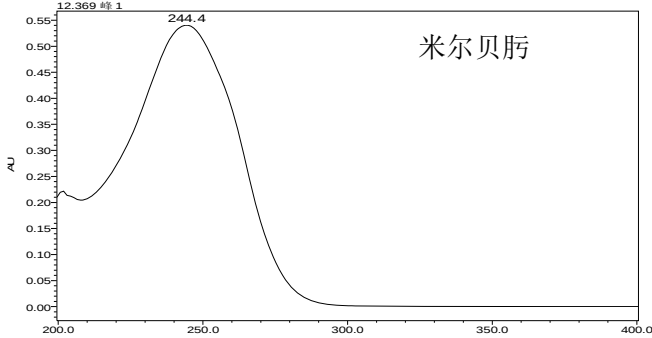
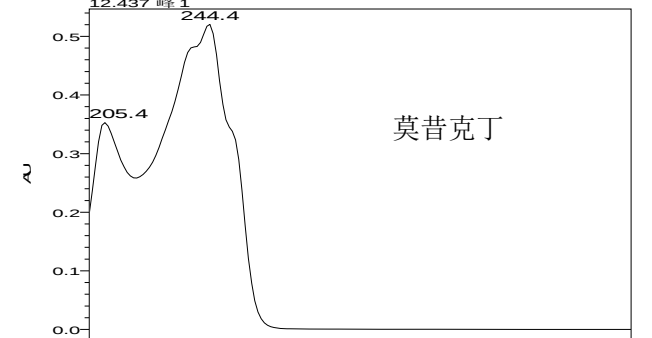
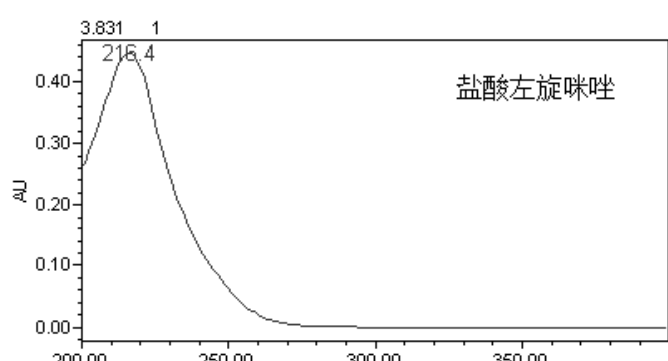
氟康唑	098-1	262.8	 UV spectrum of Fluconazole (098-1) showing a peak at 203.4 nm and a shoulder at 262.8 nm. The y-axis is AU (0.00 to 0.30) and the x-axis is wavelength (200.00 to 350.00 nm).
	098-2	260.5	 UV spectrum of Fluconazole (098-2) showing a peak at 199.2 nm and a shoulder at 260.5 nm. The y-axis is AU (0.00 to 0.20) and the x-axis is wavelength (200.00 to 400.00 nm).
伊曲康唑	099-1	260.8	 UV spectrum of Itraconazole (099-1) showing a peak at 204.2 nm and a shoulder at 260.8 nm. The y-axis is AU (0.00 to 0.60) and the x-axis is wavelength (200.00 to 400.00 nm).
克霉唑	100-1	264.4	 UV spectrum of Clotrimazole (100-1) showing a peak at 205.3 nm and a shoulder at 264.4 nm. The y-axis is AU (0.00 to 0.60) and the x-axis is wavelength (200.00 to 400.00 nm).

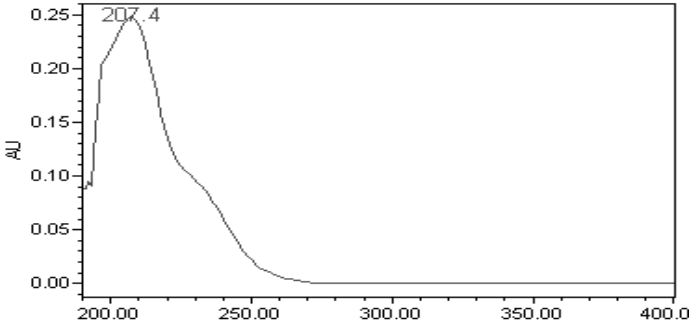
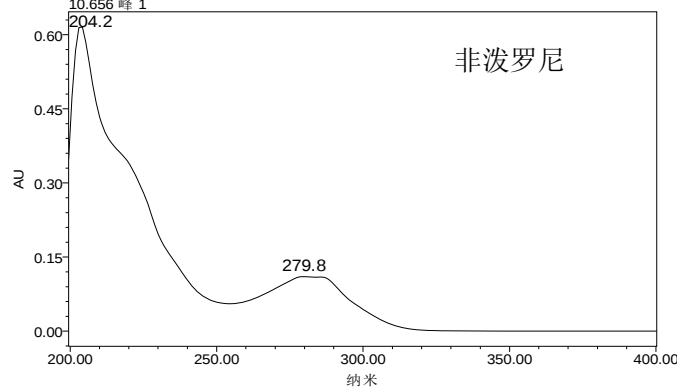
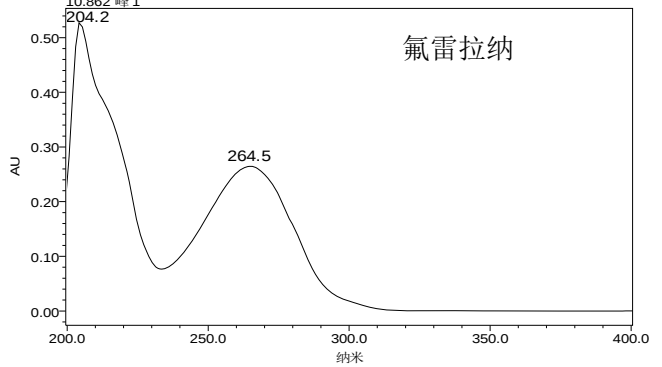
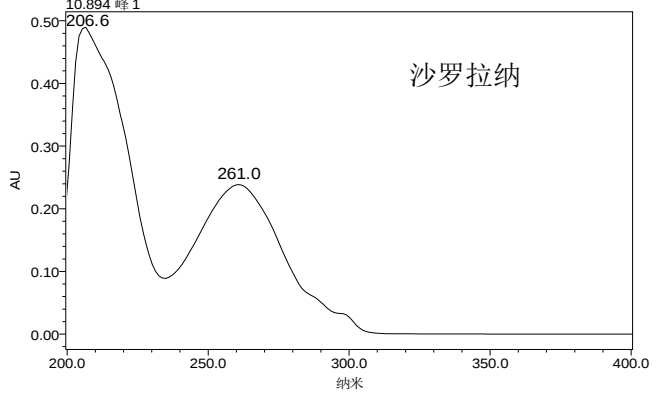
恩康唑	101-1	271.7	
特比萘芬	102-1	223.1 282.4	
吡嗪酮	103-1	266.4	
	103-2	262.9	

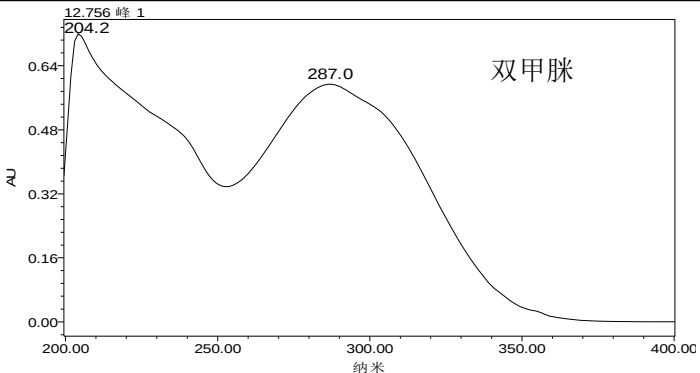
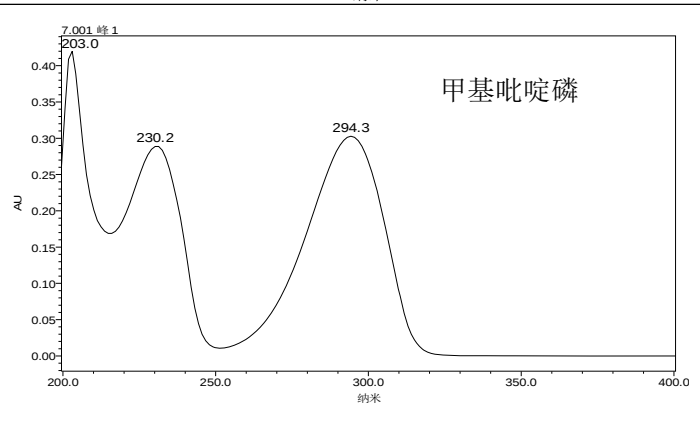
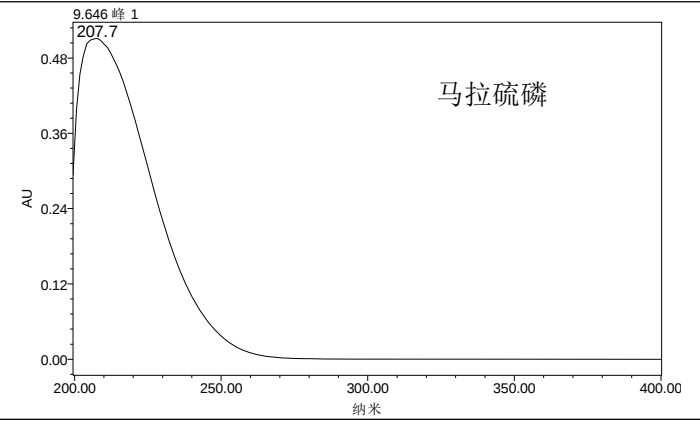
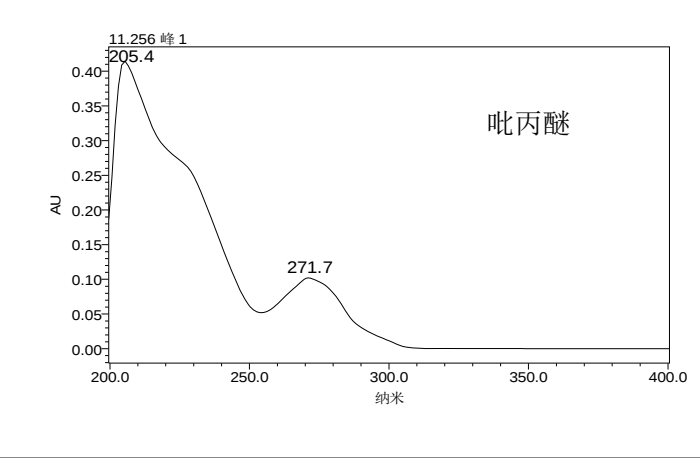
阿苯达唑	104-1	218.4 294.3	 阿苯达唑
芬苯达唑	105-1	220.0 297.5	 芬苯达唑
	105-2		不出峰
氧阿苯达唑	106-1	223.1 293.1	 氧阿苯达唑
甲苯咪唑	107-1	212.5 247.9 312.2	 甲苯咪唑

丙氧苯咪唑	108-1	245.4 294.1	 UV-Vis spectrum of propoxybenzimidazole. The x-axis represents wavelength in nanometers (200.00 to 400.00), and the y-axis represents absorbance (0.00 to 0.60). The spectrum shows two distinct peaks: a primary peak at 207.7 nm (labeled 8.738 峰 1) and a secondary peak at 294.1 nm. A shoulder is visible at 245.4 nm.
非班太尔	109-1	213.6 283.6	 UV-Vis spectrum of non-ban-tai-er. The x-axis represents wavelength in nanometers (200.0 to 400.0), and the y-axis represents absorbance (0.0 to 0.4). The spectrum shows two peaks: a primary peak at 213.6 nm (labeled 10.625 峰 1) and a secondary peak at 283.6 nm.
双羟萘酸噻嘧啶	110-1	236.1 288.3 365.6	 UV-Vis spectrum of 2,6-dihydroxynaphthalene-1,4-dicarboxylic acid thiazine. The x-axis represents wavelength in nanometers (200.0 to 400.0), and the y-axis represents absorbance (0.0 to 0.5). The spectrum shows three peaks: a primary peak at 236.1 nm (labeled 7.169 峰 1), a secondary peak at 288.3 nm, and a tertiary peak at 365.6 nm. The text "(噻嘧啶峰)" is present.
依吗德塞	111-1	253.8	 UV-Vis spectrum of imide. The x-axis represents wavelength in nanometers (200.0 to 400.0), and the y-axis represents absorbance (0.00 to 0.80). The spectrum shows two peaks: a primary peak at 206.6 nm (labeled 12.002 峰 1) and a secondary peak at 253.8 nm.

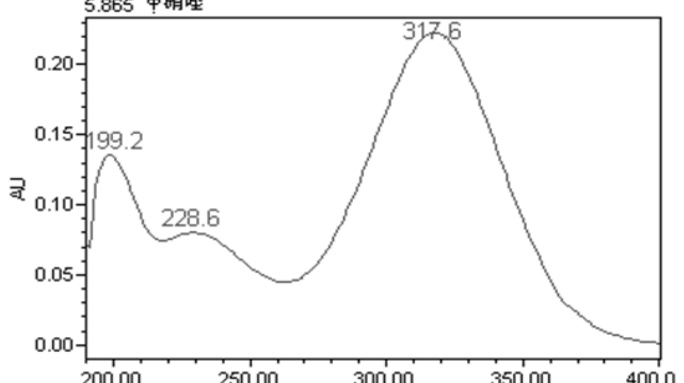
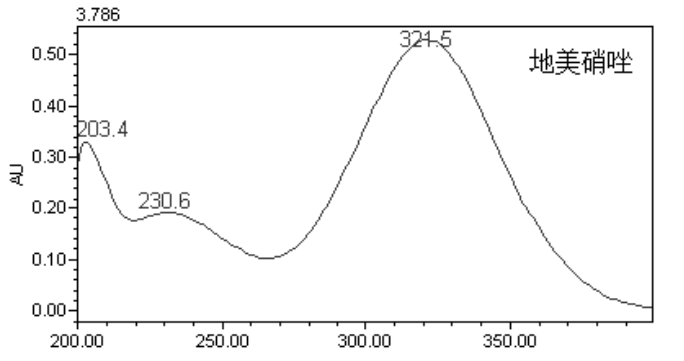
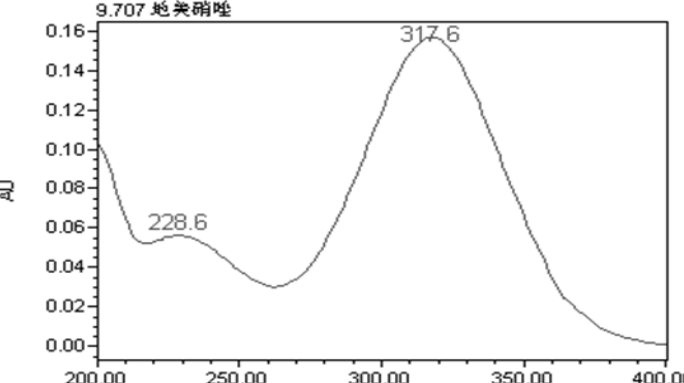
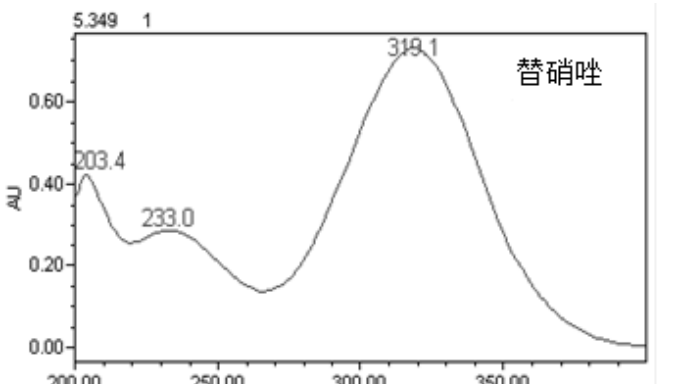
伊维菌素	112-1	244.4	
阿维菌素	113-1	247.3	
	113-2		不出峰
多拉菌素	114-1	244.4	

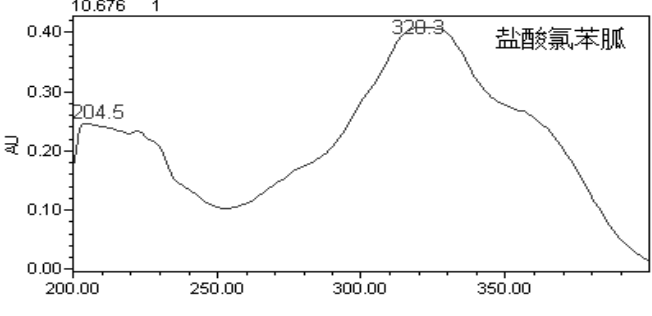
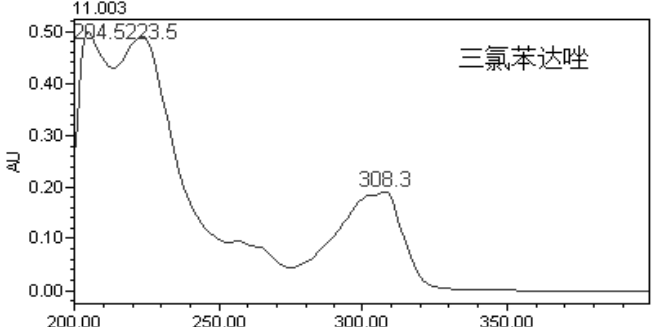
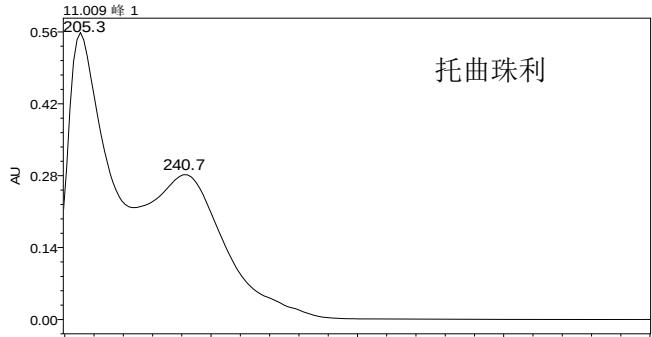
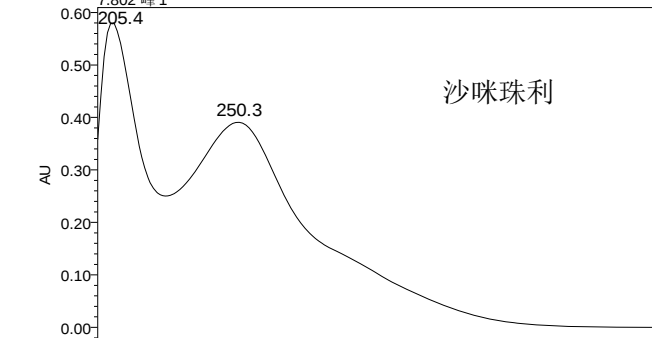
乙酰氨基阿维菌素	115-1	244.4	 12.442 峰 1 205.4 244.4 乙酰氨基阿维菌素
米尔贝肟	116-1	244.4	 12.369 峰 1 244.4 米尔贝肟
莫昔克丁	117-1	244.4	 12.437 峰 1 205.4 244.4 莫昔克丁
盐酸左旋咪唑	118-1	216.4	 3.831 1 216.4 盐酸左旋咪唑

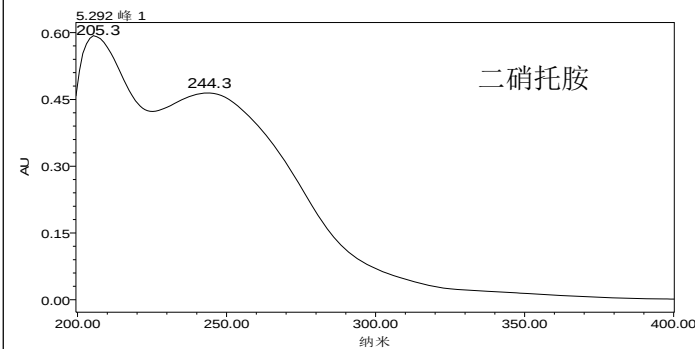
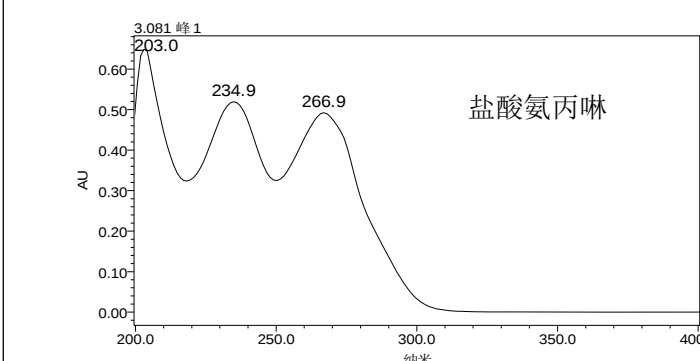
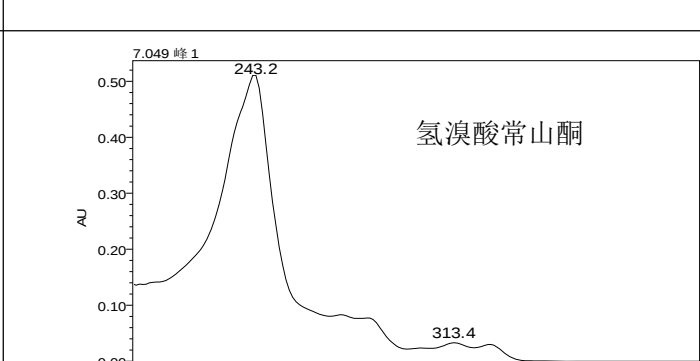
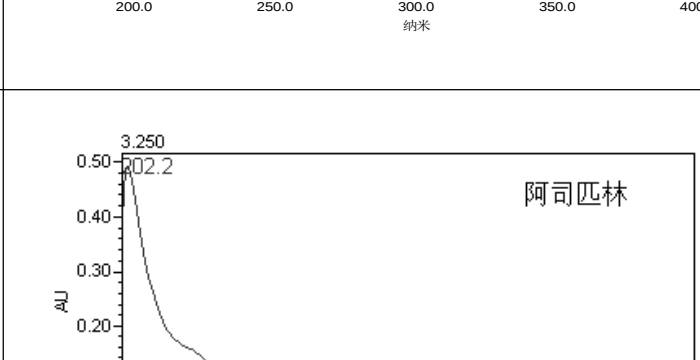
	118-2	207.4	8.702 盐酸左旋咪唑 
非泼罗尼	119-1	279.8	10.656 峰 1 
氟雷拉纳	120-1	264.5	10.862 峰 1 
沙罗拉纳	121-1	261.0	10.894 峰 1 

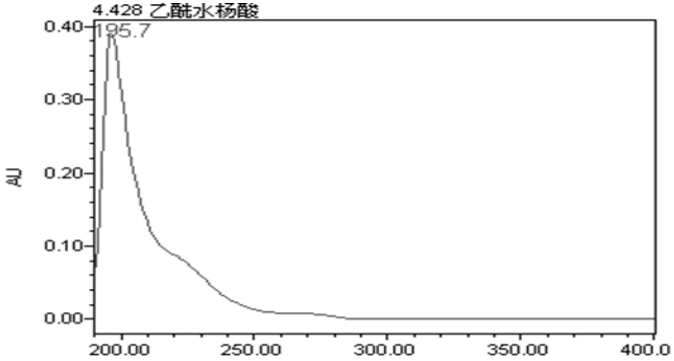
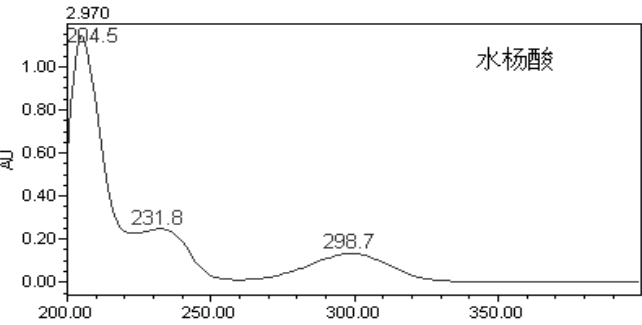
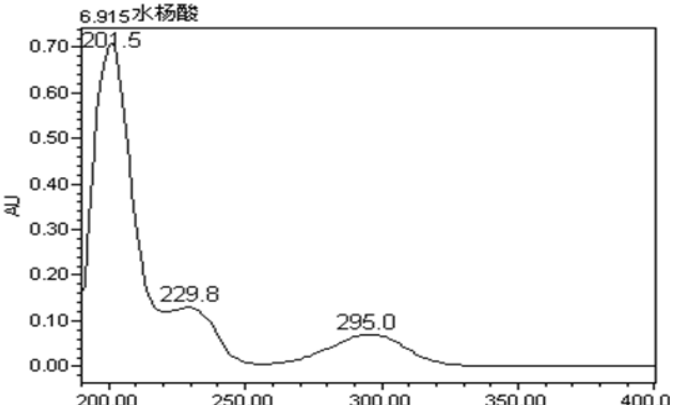
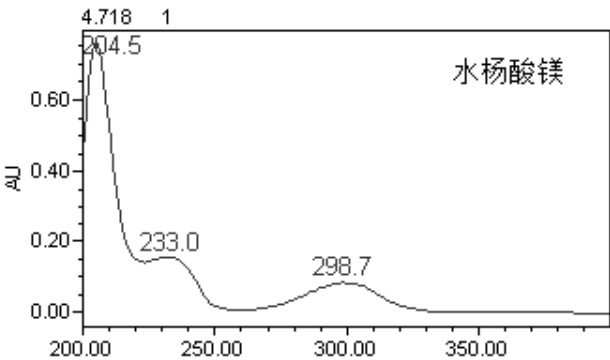
双甲脒	122-1	287.0	
甲基吡啶磷	123-1	230.2 294.3	
马拉硫磷	124-1	207.7	
吡丙醚	125-1	271.7	

甲氧普烯	126-1	264.5	12.193 峰 1 264.5 甲氧普烯
环丙氨嗪	127-1	212.5	2.900 峰 1 212.5 环丙氨嗪
氯氰碘柳胺钠	128-1	211.3 284.7 369.2	11.184 峰 1 211.3 284.7 369.2 氯氰碘柳胺钠
甲硝唑	129-1	231.8 321.5	3.306 203.4 231.8 321.5 甲硝唑

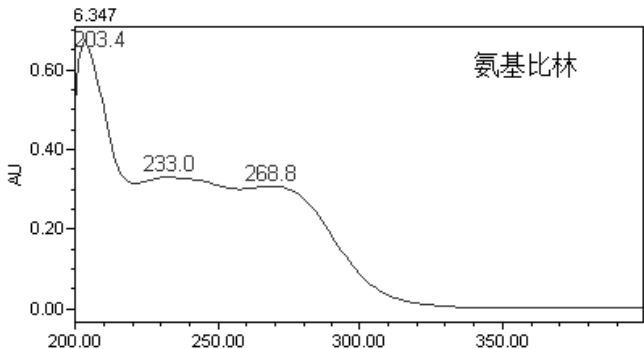
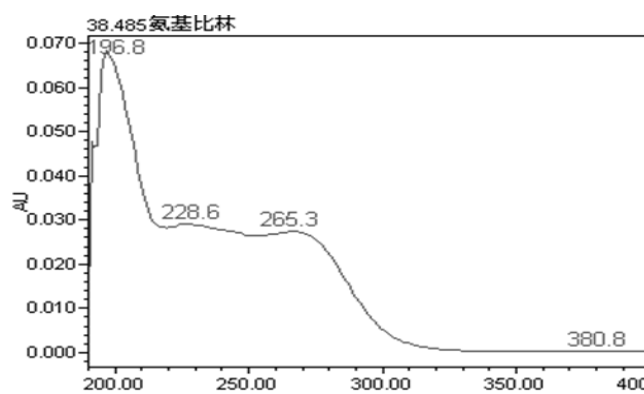
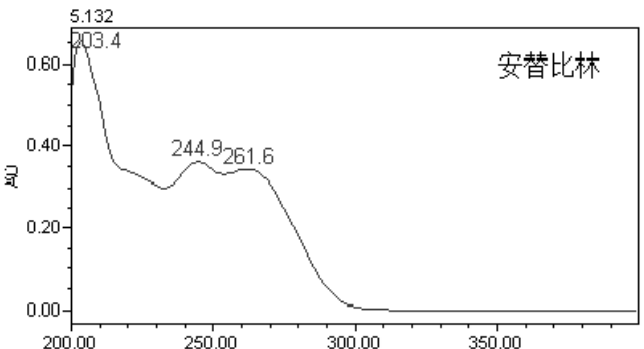
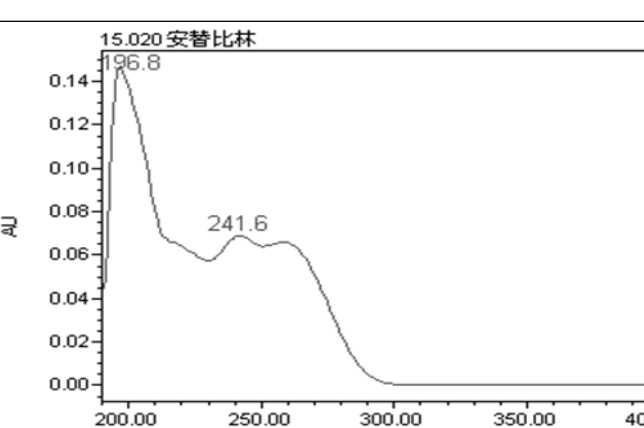
	129-2	228.6 317.6	5.865 甲硝唑 
地美硝唑	130-1	230.6 321.5	3.786  地美硝唑
	130-2	228.6 317.6	9.707 地美硝唑 
替硝唑	131-1	233.0 319.1	5.349 1  替硝唑

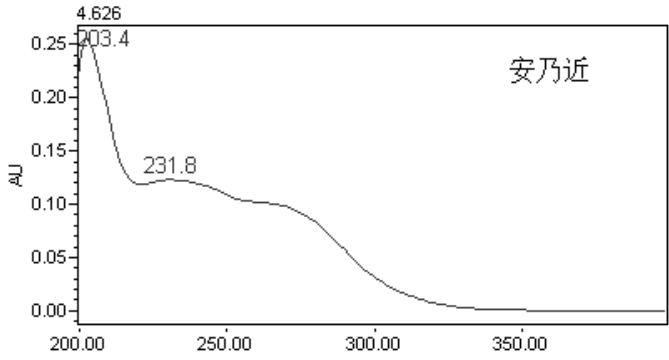
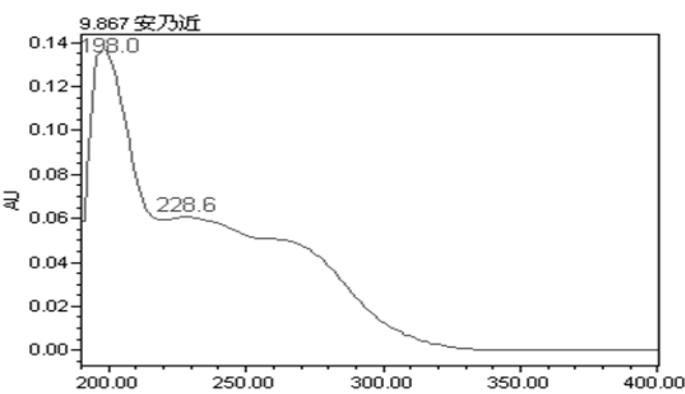
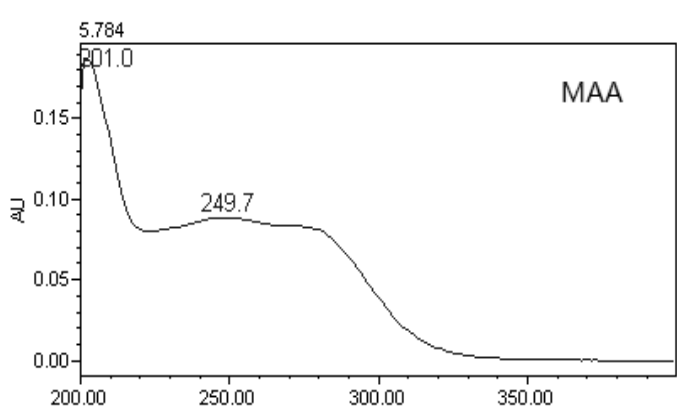
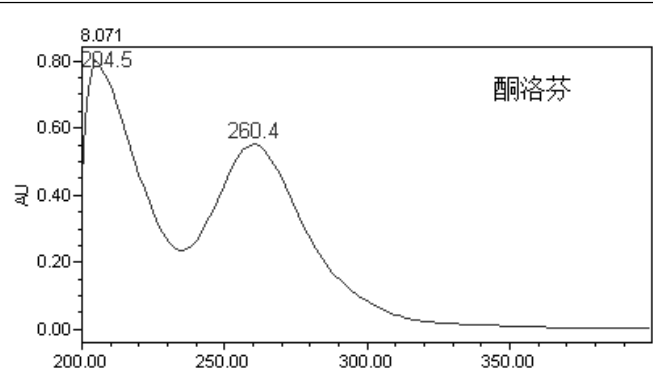
盐酸 氯苯 胍	132-1	320.3	
	132-2		不出峰
三氯 苯达 唑	133-1	223.5 308.3	
	133-2		不出峰
托曲 珠利	134-1	240.7	
沙咪 珠利	135-1	250.3	

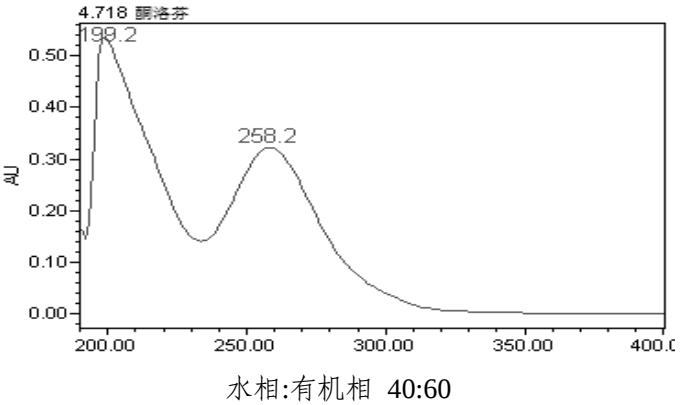
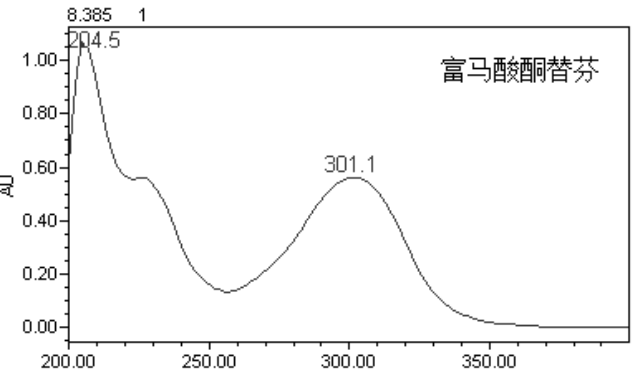
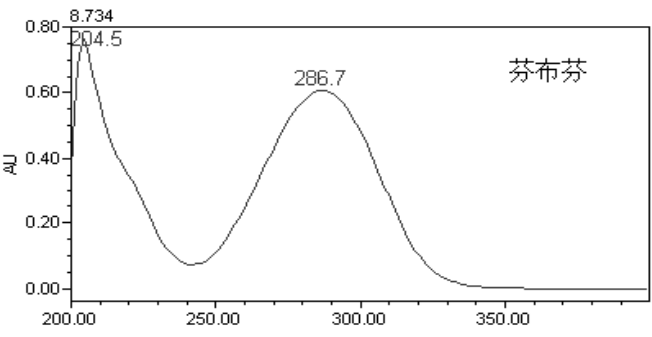
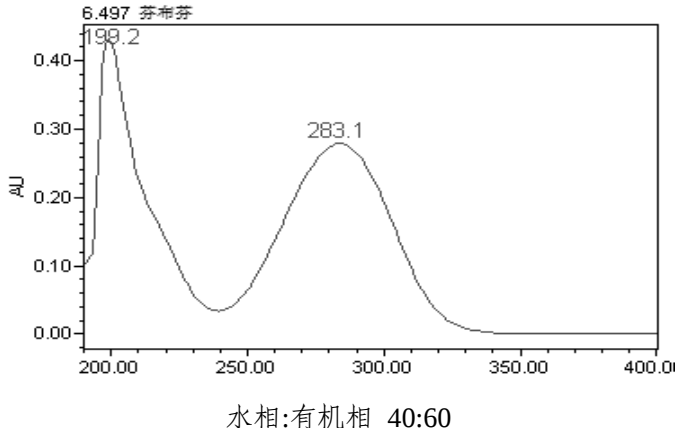
二硝托胺	136-1	244.3	 5.292 峰 1 205.3 244.3 AU 0.60 0.45 0.30 0.15 0.00 200.00 250.00 300.00 350.00 400.00 纳米 二硝托胺
盐酸氨丙啉	137-1	234.9 266.9	 3.081 峰 1 203.0 234.9 266.9 AU 0.60 0.50 0.40 0.30 0.20 0.10 0.00 200.0 250.0 300.0 350.0 400.0 纳米 盐酸氨丙啉
氢溴酸常山酮	138-1	243.2 313.4	 7.049 峰 1 243.2 313.4 AU 0.50 0.40 0.30 0.20 0.10 0.00 200.0 250.0 300.0 350.0 400.0 纳米 氢溴酸常山酮
阿司匹林	139-1	202.2	 3.250 202.2 AU 0.50 0.40 0.30 0.20 0.10 0.00 200.00 250.00 300.00 350.00 纳米 阿司匹林

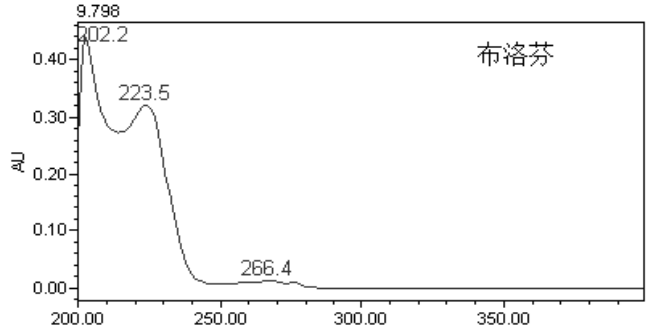
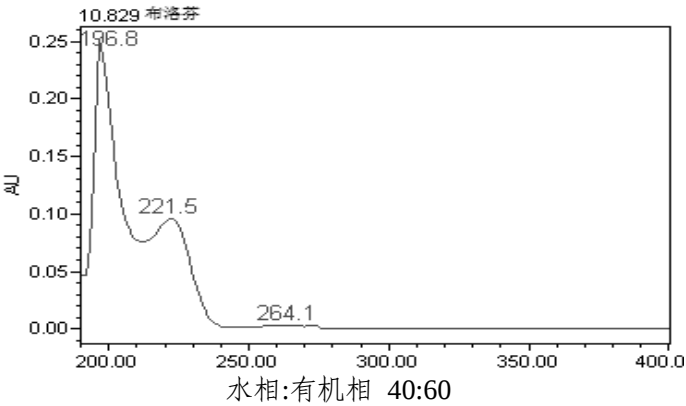
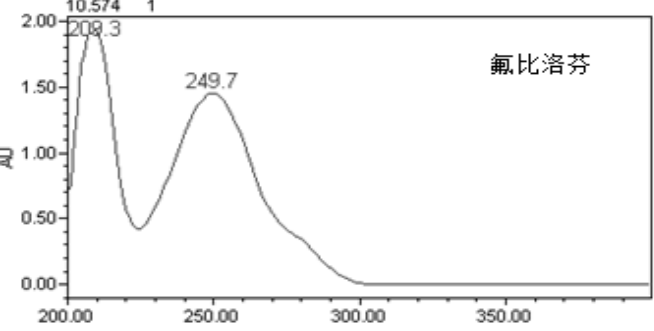
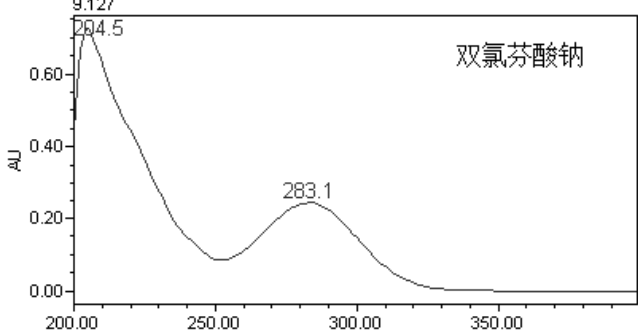
	139-2	195.7	
水杨酸	140-1	231.8 298.7	
	140-2	229.8 295.0	
水杨酸镁	141-1	233.0 298.7	

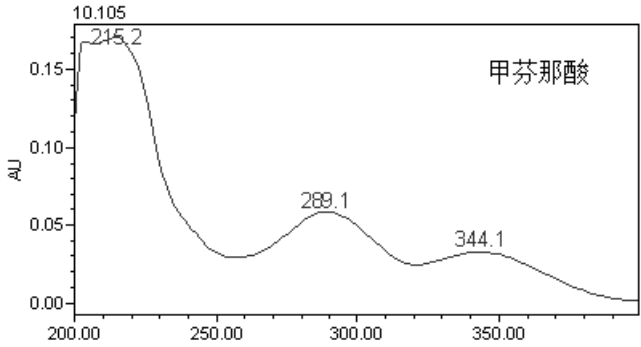
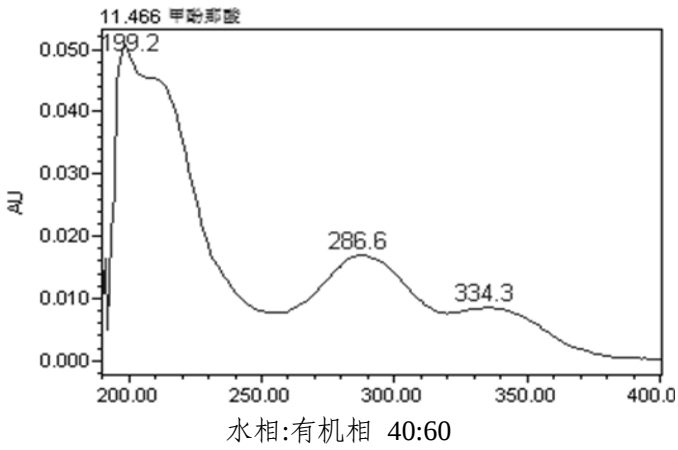
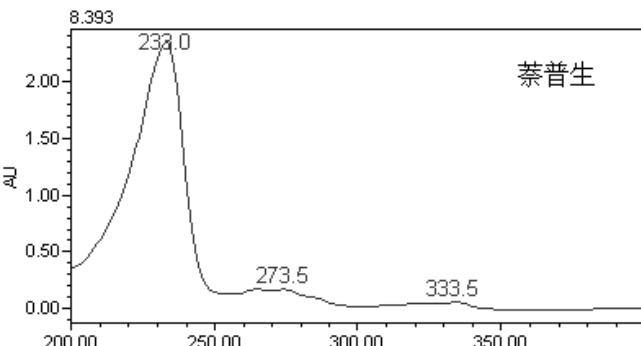
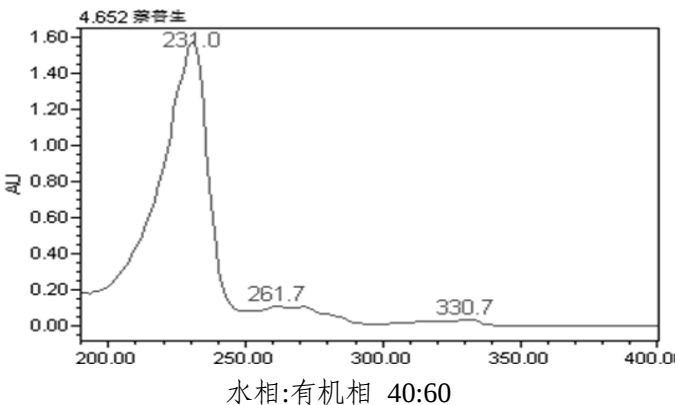
吲哚美辛	142-1	322.7	
	142-2	228.6 264.1 320.0	
对乙酰氨基酚	143-1	246.1	
	143-2	244.0	

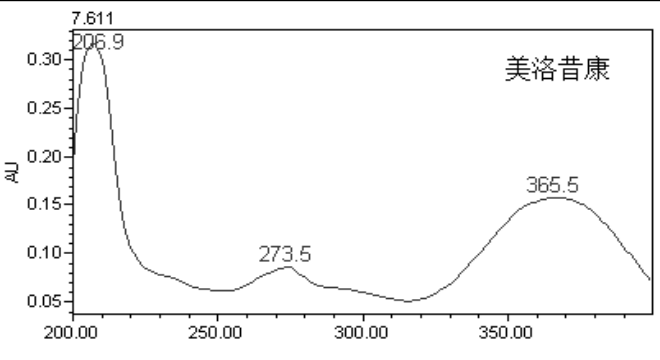
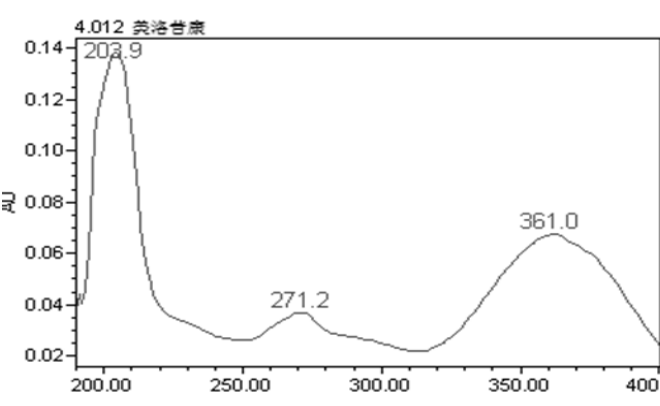
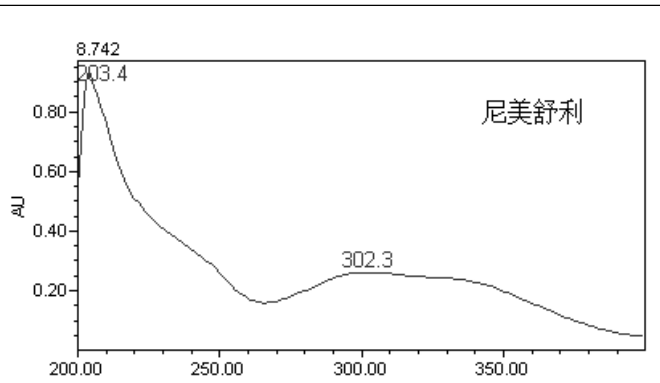
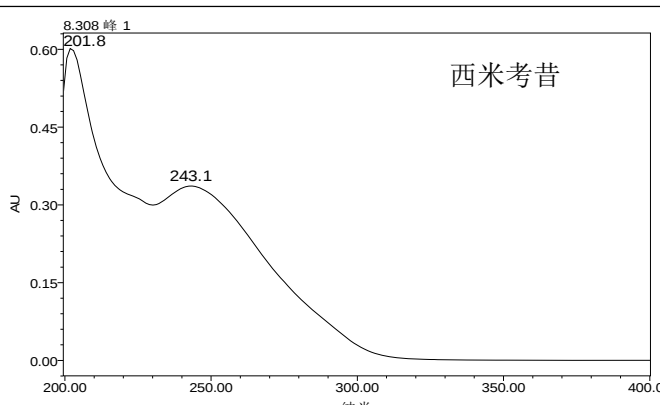
氨基比林	144-1	233.0 268.8	 UV spectrum of aminopyrine (144-1). The x-axis represents wavelength in nm (200.00 to 350.00), and the y-axis represents absorbance in AU (0.00 to 0.60). The spectrum shows a sharp peak at 203.4 nm and a broad absorption band with peaks at 233.0 nm and 268.8 nm. The title of the plot is 氨基比林.
	144-2	228.6 265.3 380.8	 UV spectrum of aminopyrine (144-2). The x-axis represents wavelength in nm (200.00 to 400.00), and the y-axis represents absorbance in AU (0.000 to 0.070). The spectrum shows a sharp peak at 196.8 nm and a broad absorption band with peaks at 228.6 nm and 265.3 nm. The title of the plot is 38.485 氨基比林.
安替比林	145-1	244.9 261.6	 UV spectrum of antipyrine (145-1). The x-axis represents wavelength in nm (200.00 to 350.00), and the y-axis represents absorbance in AU (0.00 to 0.60). The spectrum shows a sharp peak at 203.4 nm and a broad absorption band with peaks at 244.9 nm and 261.6 nm. The title of the plot is 安替比林.
	145-2	241.6	 UV spectrum of antipyrine (145-2). The x-axis represents wavelength in nm (200.00 to 400.00), and the y-axis represents absorbance in AU (0.00 to 0.14). The spectrum shows a sharp peak at 196.8 nm and a broad absorption band with a peak at 241.6 nm. The title of the plot is 15.020 安替比林.

安乃近	146-1	231.8	 Chromatogram for Anipyrine (安乃近) showing a peak at 231.8 minutes. The y-axis is AU (0.00 to 0.25) and the x-axis is time (200.00 to 350.00). Other labeled peaks are at 4.626 and 203.4 minutes.
	146-2	228.6	 Chromatogram for Anipyrine (安乃近) showing a peak at 228.6 minutes. The y-axis is AU (0.00 to 0.14) and the x-axis is time (200.00 to 400.00). Other labeled peaks are at 9.867 and 198.0 minutes.
MAA (安乃近降解产物)	147-1	249.7	 Chromatogram for MAA (安乃近降解产物) showing a peak at 249.7 minutes. The y-axis is AU (0.00 to 0.15) and the x-axis is time (200.00 to 350.00). Other labeled peaks are at 5.784 and 201.0 minutes.
酮洛芬	148-1	260.4	 Chromatogram for Ketoprofen (酮洛芬) showing a peak at 260.4 minutes. The y-axis is AU (0.00 to 0.80) and the x-axis is time (200.00 to 350.00). Other labeled peaks are at 8.071 and 204.5 minutes.

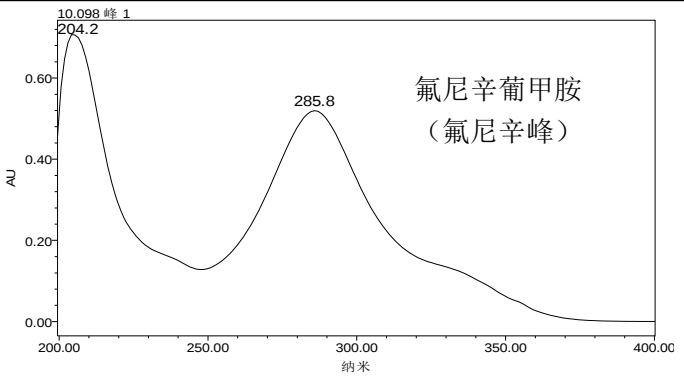
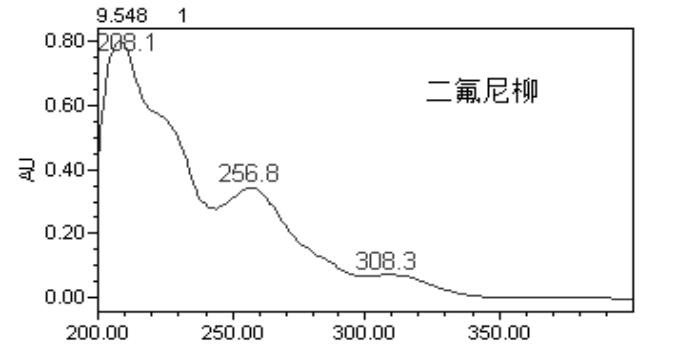
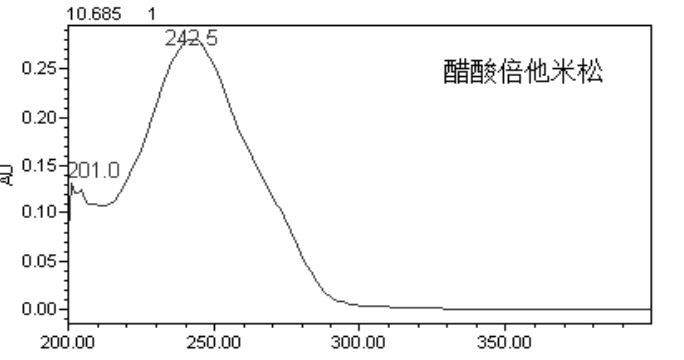
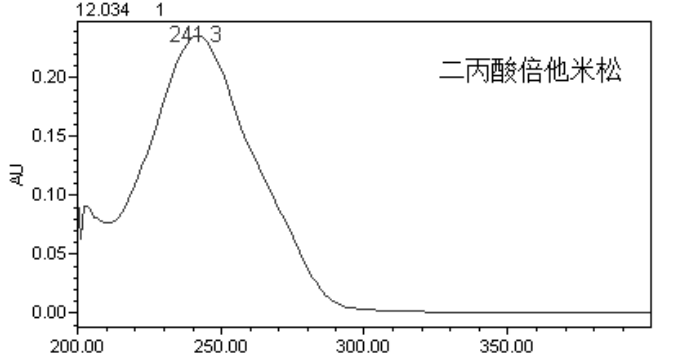
	148-2	258.2	 4.718 酮洛芬 199.2 258.2 AU 0.50 0.40 0.30 0.20 0.10 0.00 200.00 250.00 300.00 350.00 400.00 水相:有机相 40:60
富马酸酮替芬	149-1	301.1	 8.385 1 204.5 301.1 AU 1.00 0.80 0.60 0.40 0.20 0.00 200.00 250.00 300.00 350.00 富马酸酮替芬
芬布芬	150-1	286.7	 8.734 204.5 286.7 AU 0.80 0.60 0.40 0.20 0.00 200.00 250.00 300.00 350.00 芬布芬
	150-2	283.1	 6.497 芬布芬 199.2 283.1 AU 0.40 0.30 0.20 0.10 0.00 200.00 250.00 300.00 350.00 400.00 水相:有机相 40:60

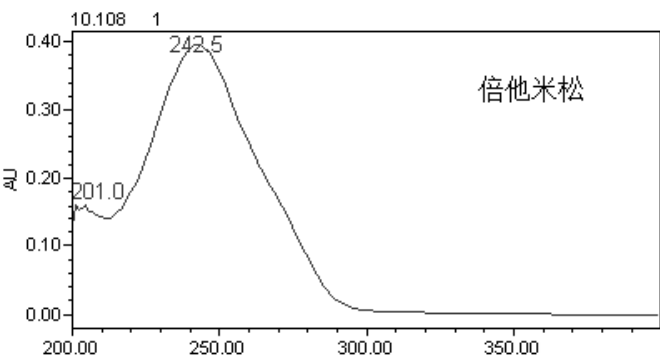
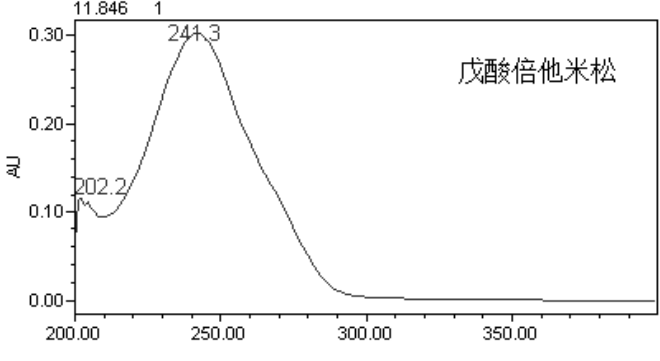
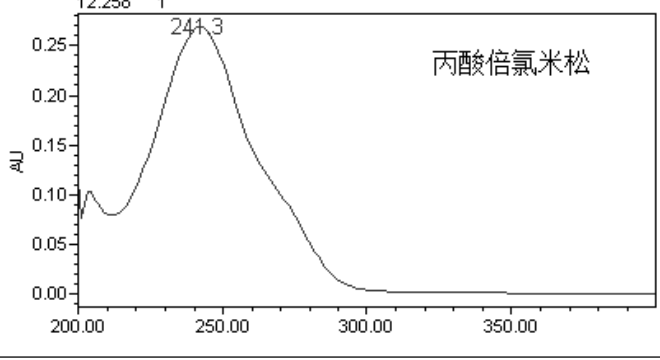
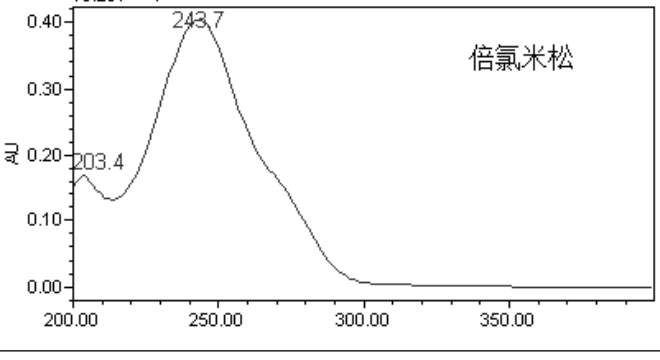
布洛芬	151-1	223.5 266.4	
	151-2	221.5 264.1	
氟比洛芬	152-1	249.7	
双氯芬酸钠	153-1	283.1	
	153-2		60 分钟不出峰

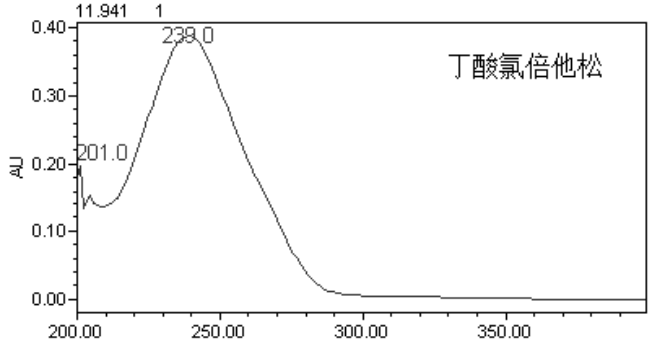
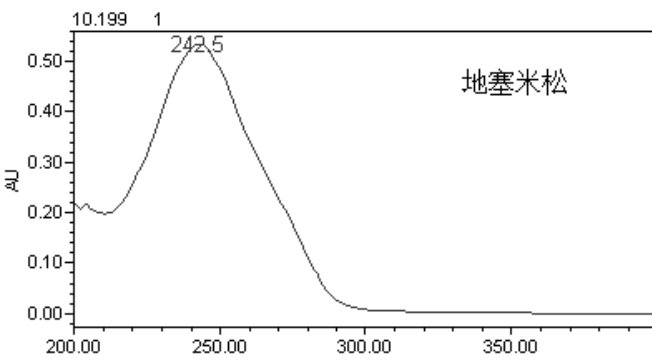
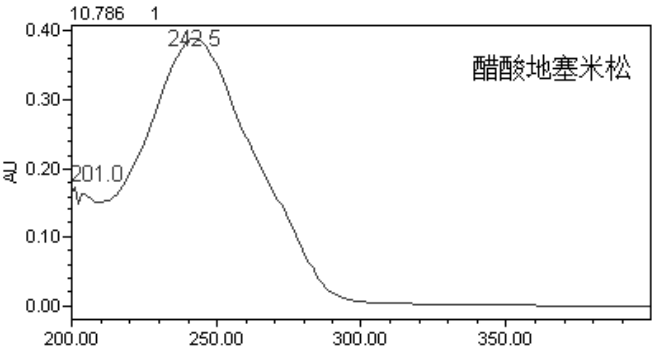
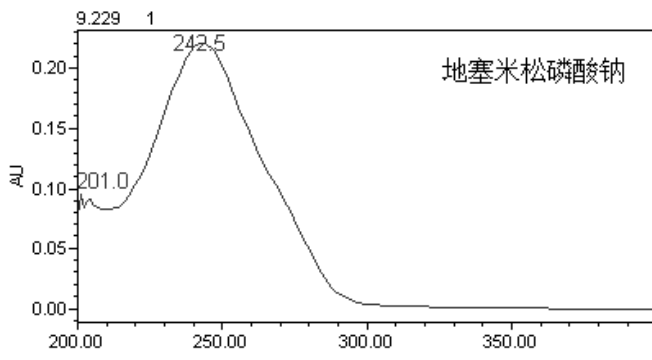
甲芬那酸	154-1	215.2 289.1 344.1	
	154-2	286.6 334.3	
萘普生	155-1	233.0 273.5 333.5	
	155-2	231.0 261.7 330.7	

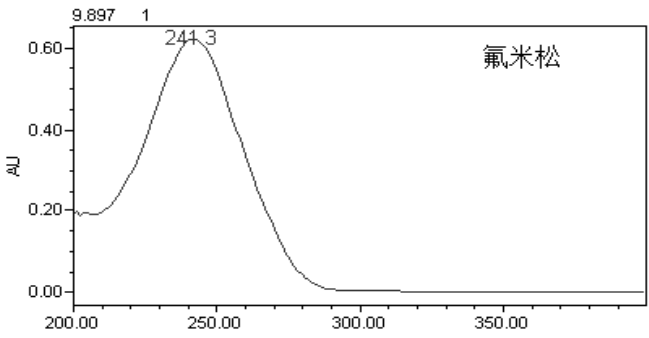
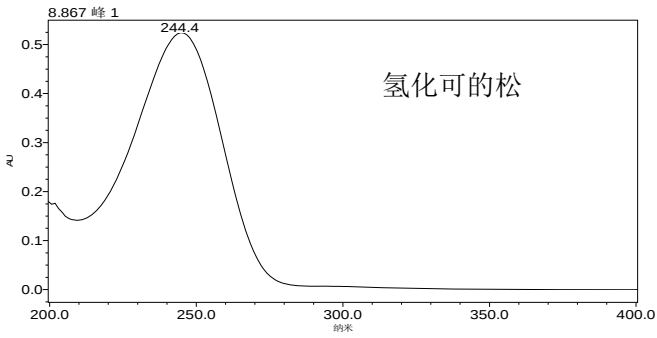
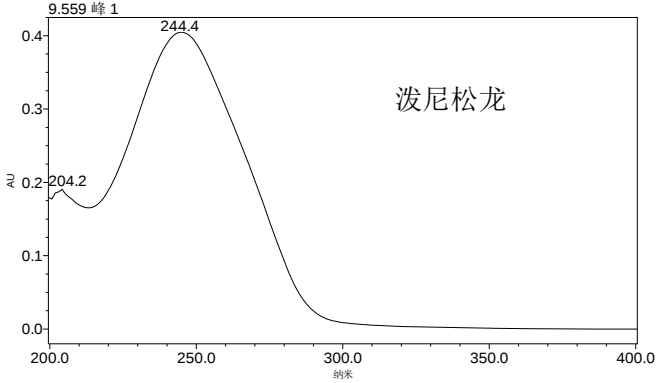
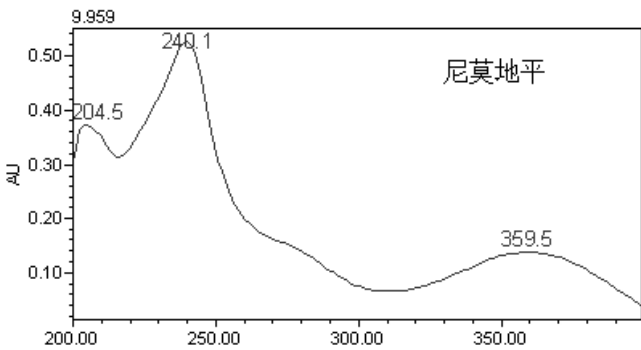
美洛昔康	156-1	273.5 365.5	
	156-2	271.2 361.0	 水相:有机相 40:60
尼美舒利	157-1	302.3	
西米考昔	158-1	243.1	

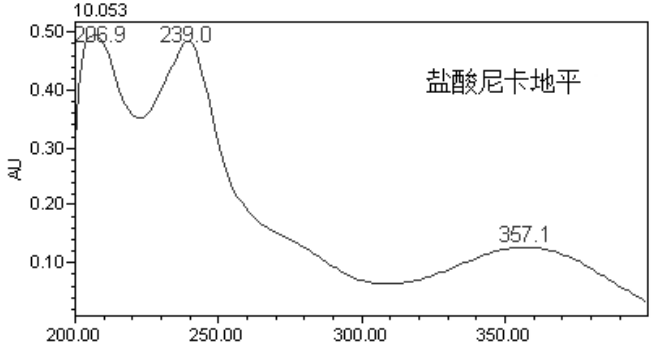
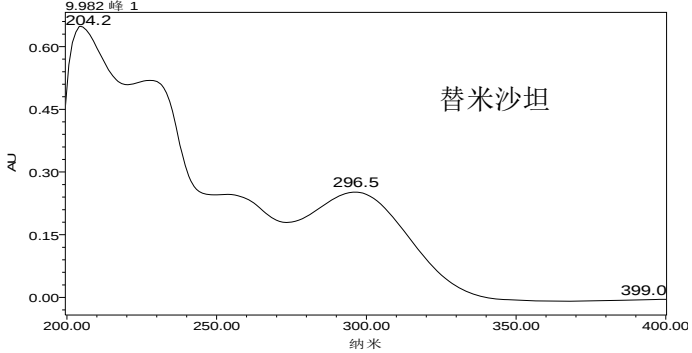
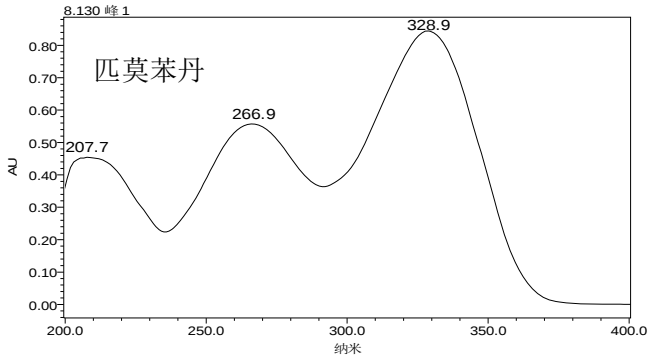
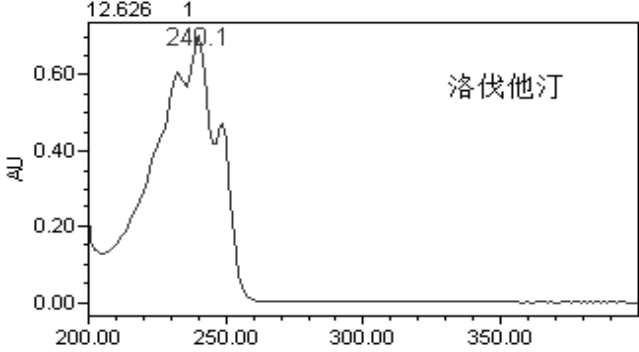
非罗考昔	159-1	220.6 289.3	UV-Vis spectrum of Firocoxib (非罗考昔). The x-axis represents wavelength in nm, ranging from 200.00 to 400.00. The y-axis represents absorbance (AU), ranging from 0.00 to 0.40. The spectrum shows two distinct peaks: one at 220.6 nm (labeled '8.570 峰 1') and another at 289.3 nm. The absorbance at 220.6 nm is approximately 0.40, and at 289.3 nm it is approximately 0.38.
维他昔布	160-1	243.2	UV-Vis spectrum of Vemoxib (维他昔布). The x-axis represents wavelength in nm, ranging from 200.0 to 400.0. The y-axis represents absorbance (AU), ranging from 0.00 to 0.40. The spectrum shows a single prominent peak at 243.2 nm (labeled '8.678 峰 1'). The absorbance at this peak is approximately 0.40.
卡洛芬	161-1	238.4 300.2	UV-Vis spectrum of Carprofen (卡洛芬). The x-axis represents wavelength in nm, ranging from 200.0 to 400.0. The y-axis represents absorbance (AU), ranging from 0.00 to 0.40. The spectrum shows two distinct peaks: one at 238.4 nm (labeled '9.275 峰 1') and another at 300.2 nm. The absorbance at 238.4 nm is approximately 0.38, and at 300.2 nm it is approximately 0.18.
格拉匹仑	162-1	211.3	UV-Vis spectrum of Gracipilon (格拉匹仑). The x-axis represents wavelength in nm, ranging from 200.0 to 400.0. The y-axis represents absorbance (AU), ranging from 0.00 to 0.40. The spectrum shows a single prominent peak at 211.3 nm (labeled '7.812 峰 1'). The absorbance at this peak is approximately 0.40.

氟尼辛葡甲胺	163-1	285.8	 10.098 峰 1 204.2 285.8 氟尼辛葡甲胺 (氟尼辛峰)
二氟尼柳	164-1	256.8 308.3	 9.548 1 208.1 256.8 308.3 二氟尼柳
醋酸倍他米松	165-1	242.5	 10.685 1 201.0 242.5 醋酸倍他米松
二丙酸倍他米松	166-1	241.3	 12.034 1 241.3 二丙酸倍他米松

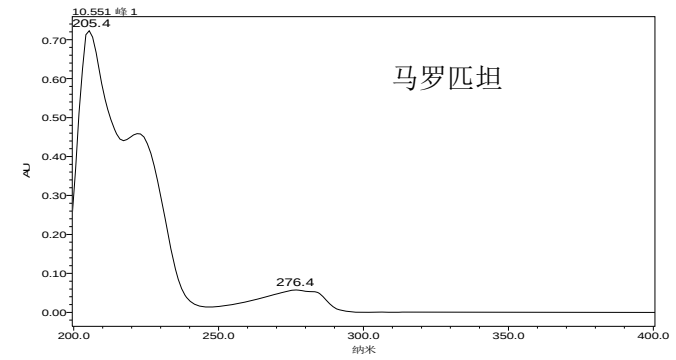
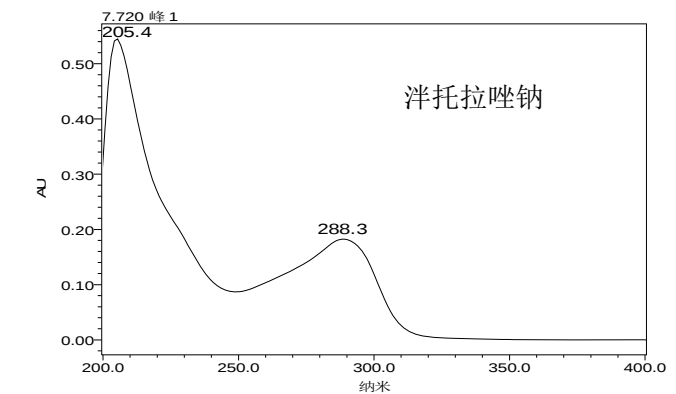
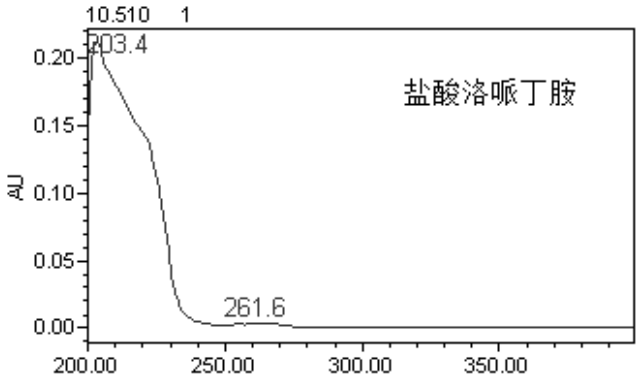
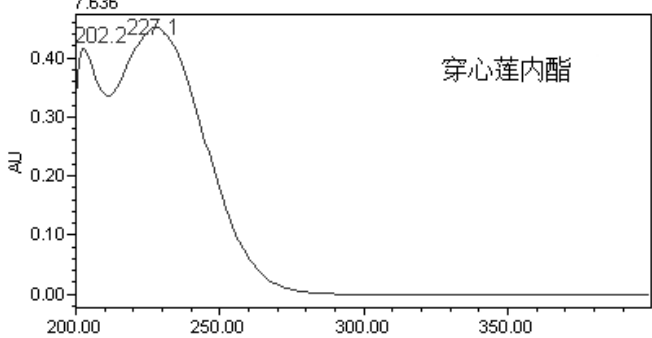
倍他米松	167-1	242.5	 Chromatogram of Betamethasone (倍他米松). The x-axis represents time in minutes (200.00 to 350.00), and the y-axis represents absorbance units (AU) (0.00 to 0.40). The major peak is labeled with retention time 242.5 and peak number 1. A minor peak is labeled with retention time 201.0.
戊酸倍他米松	168-1	241.3	 Chromatogram of Pentamethylbetamethasone (戊酸倍他米松). The x-axis represents time in minutes (200.00 to 350.00), and the y-axis represents absorbance units (AU) (0.00 to 0.30). The major peak is labeled with retention time 241.3 and peak number 1. A minor peak is labeled with retention time 202.2.
丙酸倍氯米松	169-1	241.3	 Chromatogram of Propylbetamethasone (丙酸倍氯米松). The x-axis represents time in minutes (200.00 to 350.00), and the y-axis represents absorbance units (AU) (0.00 to 0.25). The major peak is labeled with retention time 241.3 and peak number 1. A minor peak is labeled with retention time 12.258.
倍氯米松	170-1	243.7	 Chromatogram of Betamethasone (倍氯米松). The x-axis represents time in minutes (200.00 to 350.00), and the y-axis represents absorbance units (AU) (0.00 to 0.40). The major peak is labeled with retention time 243.7 and peak number 1. A minor peak is labeled with retention time 203.4.

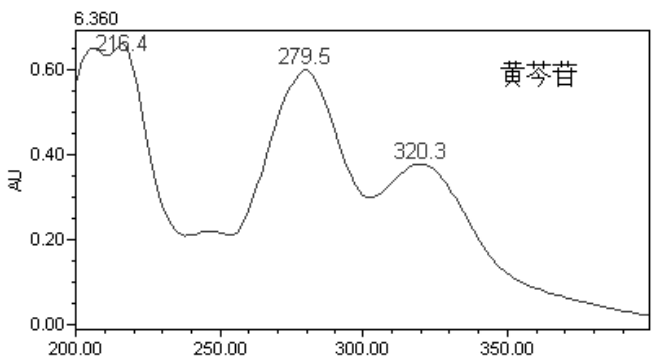
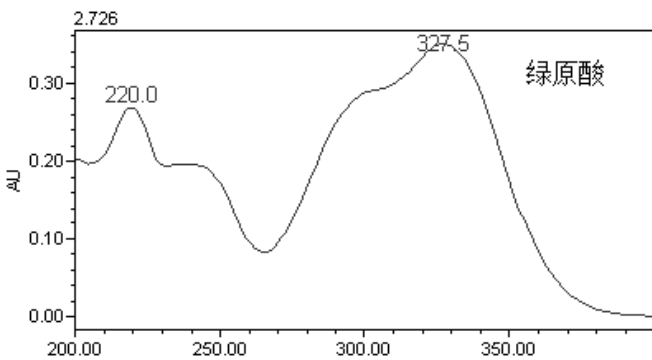
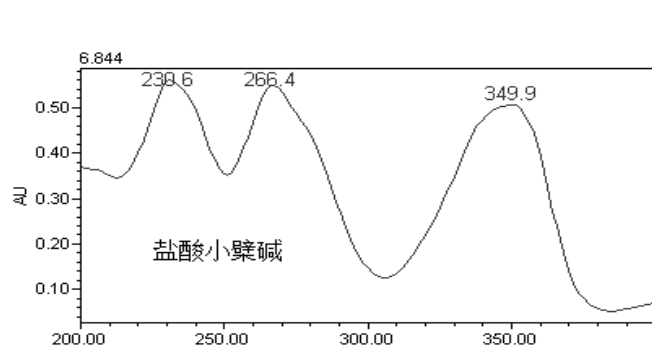
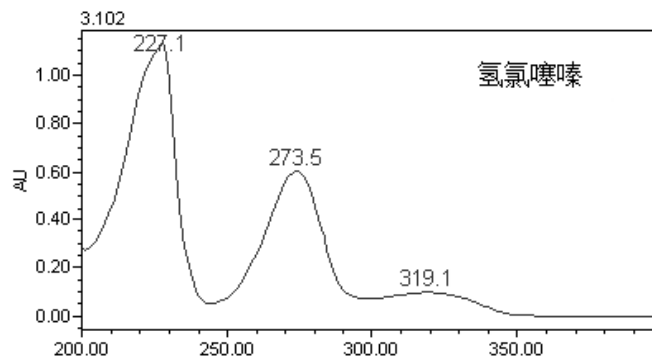
丁酸氯倍他松	171-1	239.0	 Chromatogram of Butylchlorobetasolone (丁酸氯倍他松). The x-axis represents time in minutes (200.00 to 350.00) and the y-axis represents absorbance (AU) (0.00 to 0.40). A single prominent peak is observed at 239.0 minutes. A small peak is also labeled at 11.941 minutes.
地塞米松	172-1	242.5	 Chromatogram of Dexamethasone (地塞米松). The x-axis represents time in minutes (200.00 to 350.00) and the y-axis represents absorbance (AU) (0.00 to 0.50). A single prominent peak is observed at 242.5 minutes. A small peak is also labeled at 10.199 minutes.
醋酸地塞米松	173-1	242.5	 Chromatogram of Dexamethasone Acetate (醋酸地塞米松). The x-axis represents time in minutes (200.00 to 350.00) and the y-axis represents absorbance (AU) (0.00 to 0.40). A single prominent peak is observed at 242.5 minutes. A small peak is also labeled at 10.786 minutes.
地塞米松磷酸钠	174-1	242.5	 Chromatogram of Dexamethasone Sodium Phosphate (地塞米松磷酸钠). The x-axis represents time in minutes (200.00 to 350.00) and the y-axis represents absorbance (AU) (0.00 to 0.20). A single prominent peak is observed at 242.5 minutes. A small peak is also labeled at 9.229 minutes.
	174-2		不出峰

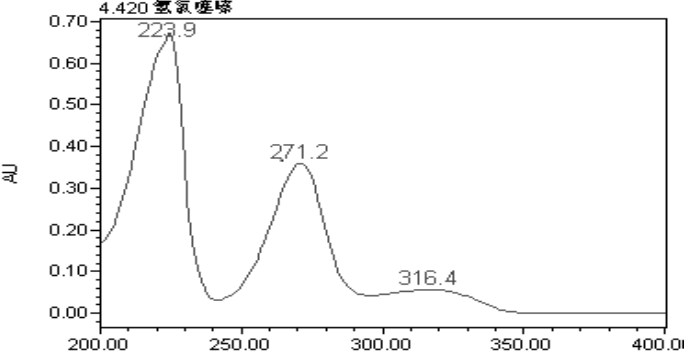
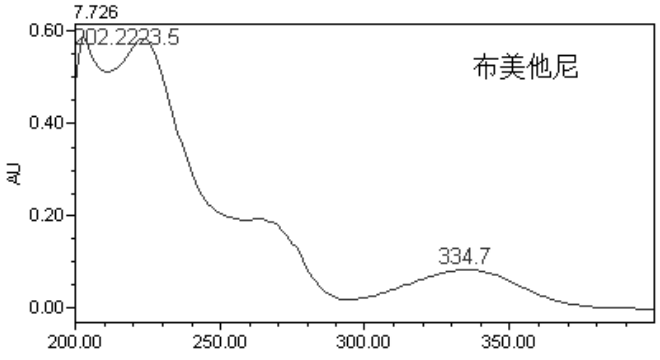
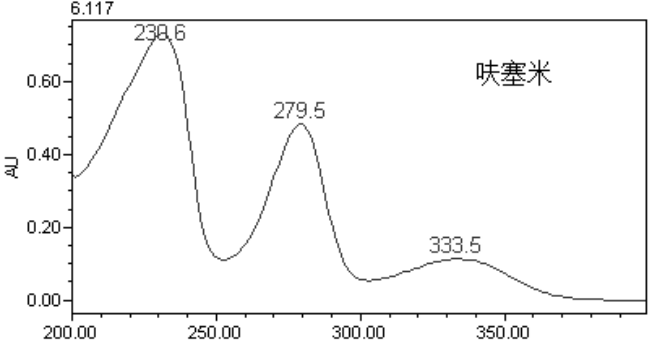
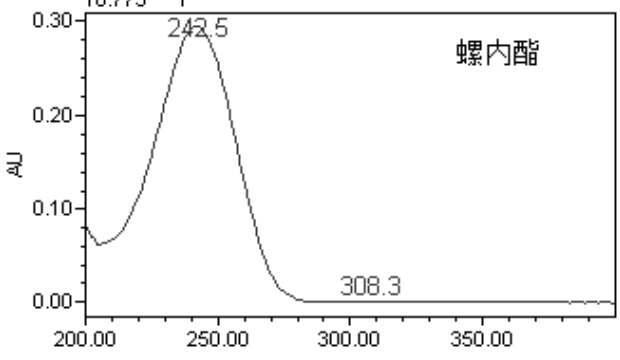
氟米松	175-1	241.3	
氢化可的松	176-1	244.4	
泼尼松龙	177-1	244.4	
尼莫地平	178-1	240.1 359.5	
	178-2		不出峰

盐酸尼卡地平	179-1	239.0 357.1	 10.053 206.9 239.0 AU 0.50 0.40 0.30 0.20 0.10 200.00 250.00 300.00 350.00 盐酸尼卡地平
	179-2		不出峰
替米沙坦	180-1	296.5	 9.982 峰 1 204.2 AU 0.60 0.45 0.30 0.15 0.00 200.00 250.00 300.00 350.00 400.00 296.5 399.0 替米沙坦 纳米
匹莫苯丹	181-1	266.9 328.9	 8.130 峰 1 207.7 266.9 328.9 AU 0.80 0.70 0.60 0.50 0.40 0.30 0.20 0.10 0.00 200.0 250.0 300.0 350.0 400.0 匹莫苯丹 纳米
洛伐他汀	182-1	240.1	 12.626 1 240.1 AU 0.60 0.40 0.20 0.00 200.00 250.00 300.00 350.00 洛伐他汀

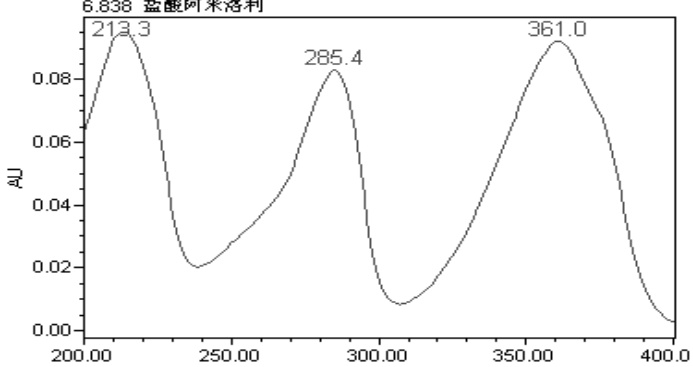
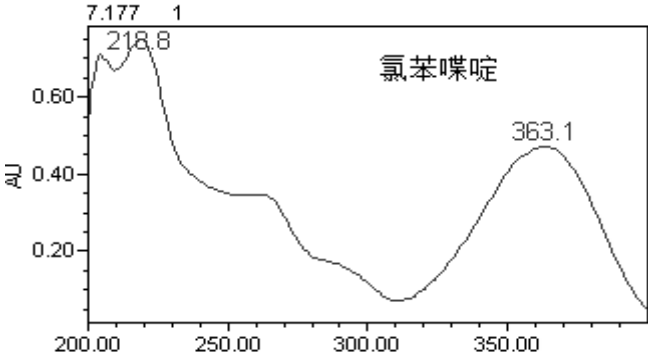
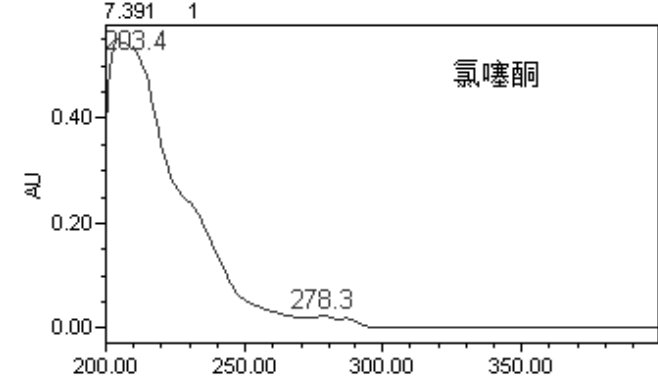
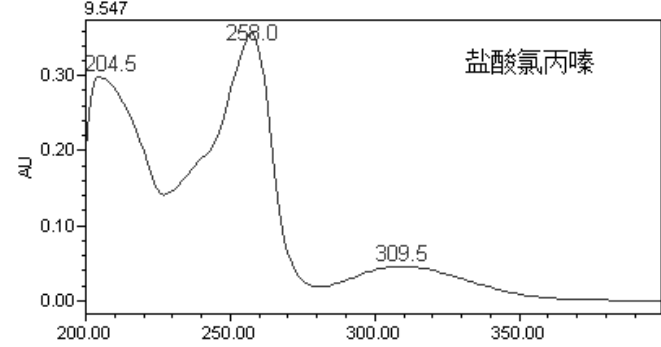
辛伐他汀	183-1	237.3	11.389 峰1 237.3 辛伐他汀
长春西汀	184-1	228.3 273.5 316.7	10.544 205.7 228.3 273.5 316.7 长春西汀
	184-2		不出峰
甲氧氯普胺	185-1	215.2 277.1 311.9	5.002 215.2 277.1 311.9 甲氧氯普胺
	185-2	212.1 273.6 310.4	48 甲氧氯普胺 212.1 273.6 310.4 354.7 376.0

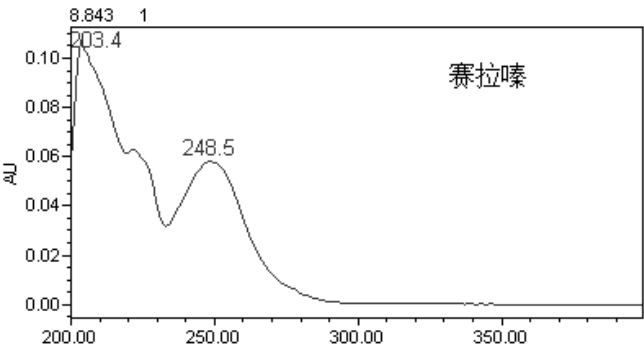
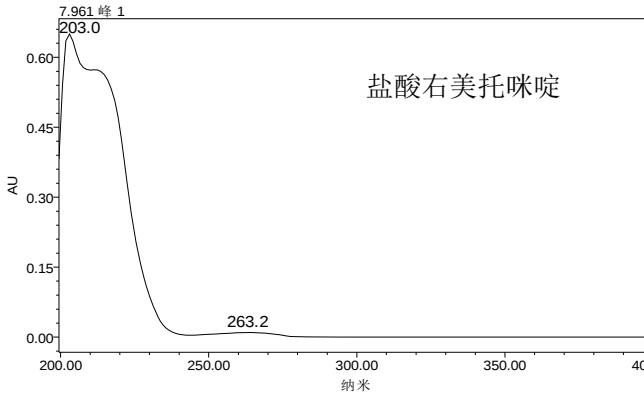
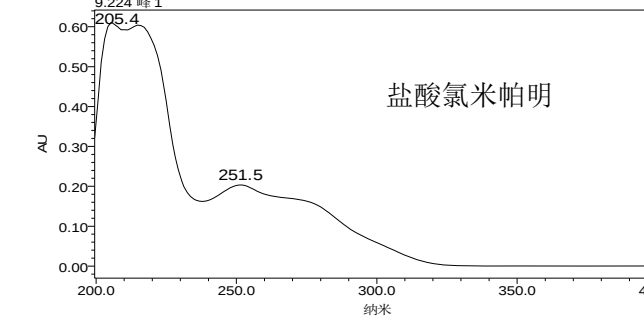
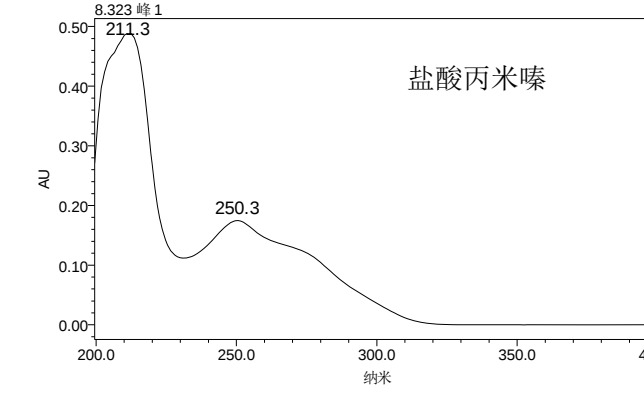
马罗匹坦	186-1	276.4	 马罗匹坦
泮托拉唑钠	187-1	288.3	 泮托拉唑钠
盐酸洛哌丁胺	188-1	261.6	 盐酸洛哌丁胺
穿心莲内酯	189-1	227.1	 穿心莲内酯

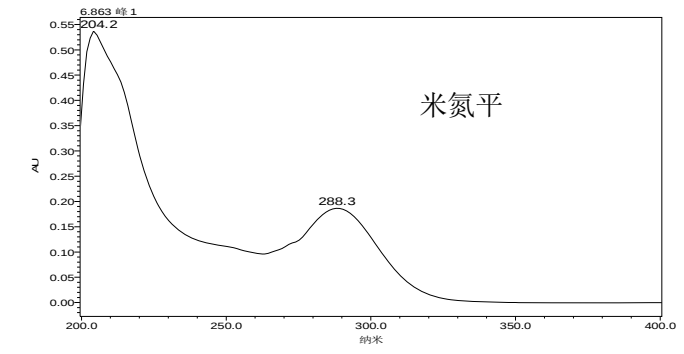
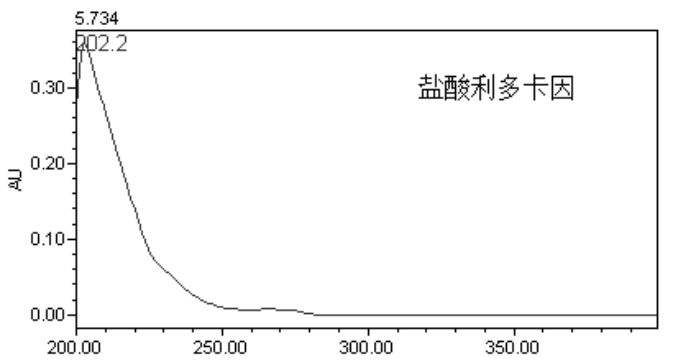
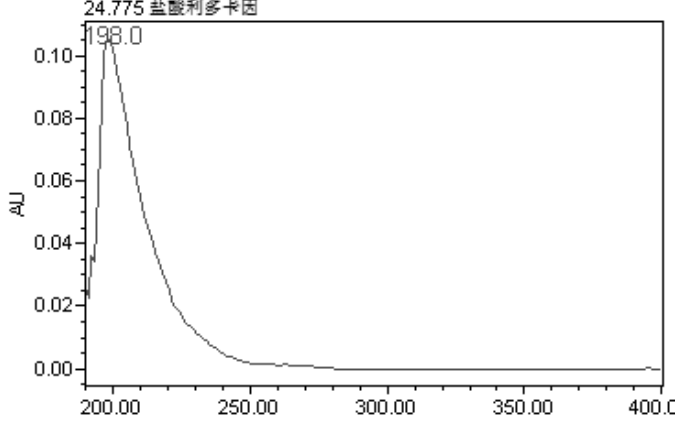
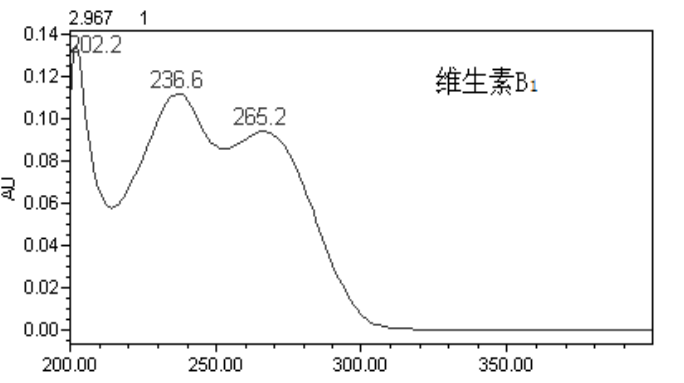
黄芩 苷	190-1	216.4 279.5 320.3	 黄芩苷
绿原 酸	191-1	220.0 327.5	 绿原酸
盐酸 小檗 碱	192-1	230.6 266.4 349.9	 盐酸小檗碱
氢氯 噻嗪	193-1	227.1 273.5 319.1	 氢氯噻嗪

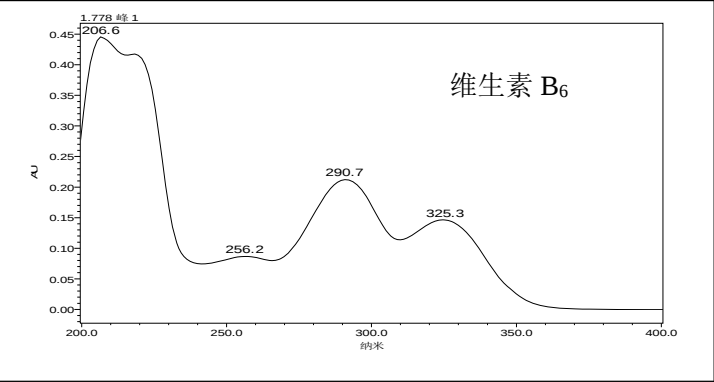
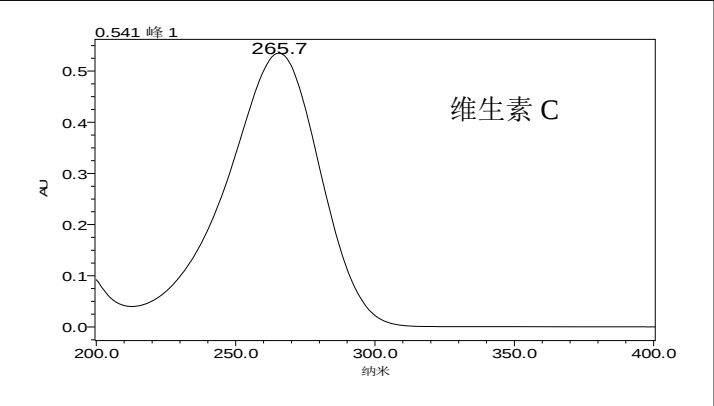
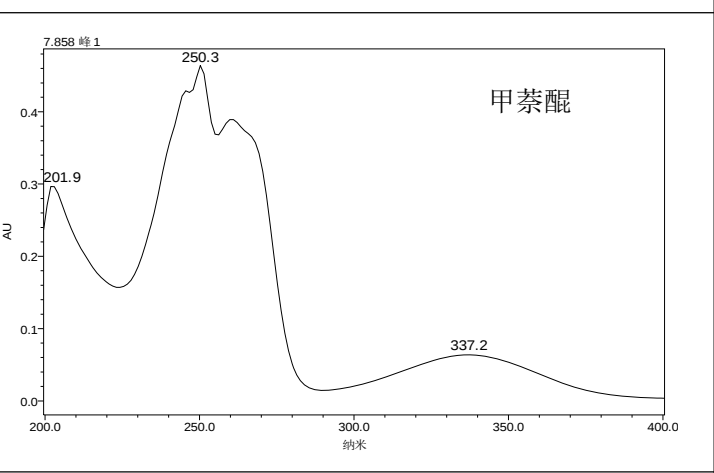
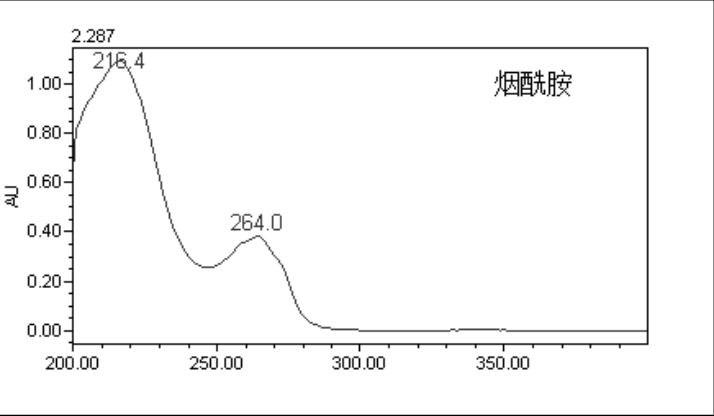
	193-2	223.9 271.2 316.4	
布美他尼	194-1	223.5 334.7	
	194-2		不出峰
呋塞米	195-1	230.6 279.5 333.5	
螺内酯	196-1	242.5 308.3	

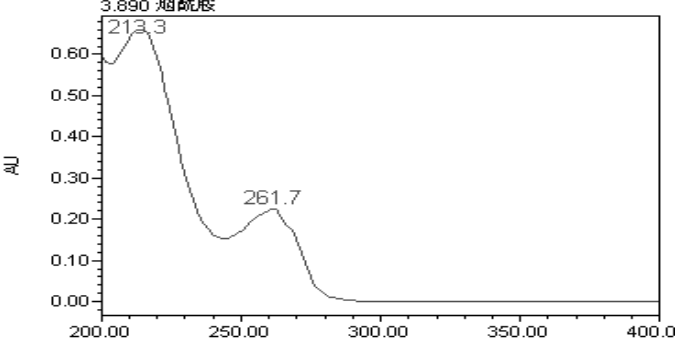
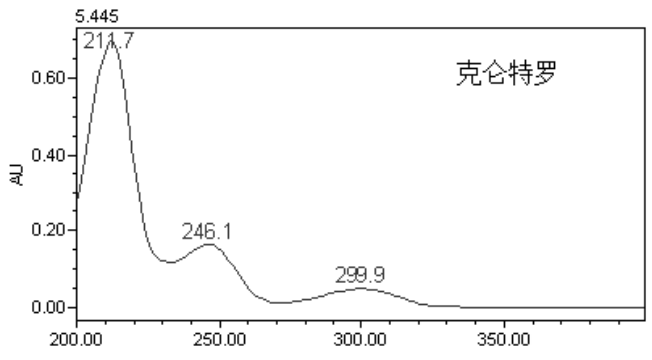
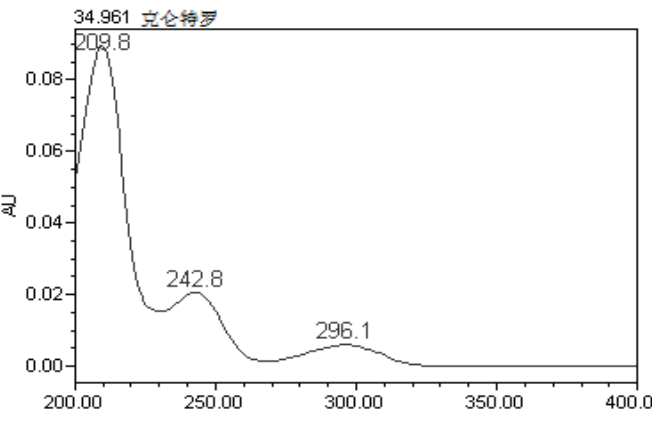
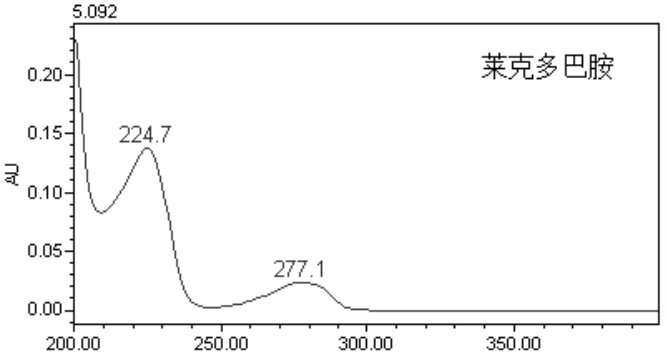
阿佐塞米	197-1	241.3 284.3 329.9	Chromatogram of Azosite (阿佐塞米) showing peaks at 8.462, 241.3, 284.3, and 329.9 minutes. The y-axis is AU (0.00 to 0.30) and the x-axis is time (200.00 to 350.00).
苄氟噻嗪	198-1	210.5 274.7 329.9	Chromatogram of Benzfluthiazide (苄氟噻嗪) showing peaks at 8.883, 210.5, 274.7, and 329.9 minutes. The y-axis is AU (0.00 to 0.50) and the x-axis is time (200.00 to 350.00).
依他尼酸	199-1	281.9	Chromatogram of Ethacrynic acid (依他尼酸) showing peaks at 9.676, 265.7, and 281.9 minutes. The y-axis is AU (0.00 to 0.40) and the x-axis is time (200.00 to 350.00).
盐酸阿米洛利	200-1	215.2 287.9 365.5	Chromatogram of Amiloride hydrochloride (盐酸阿米洛利) showing peaks at 3.996, 215.2, 287.9, and 365.5 minutes. The y-axis is AU (0.00 to 0.30) and the x-axis is time (200.00 to 350.00).

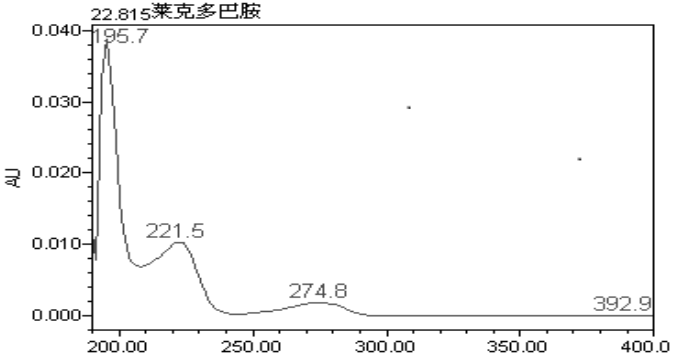
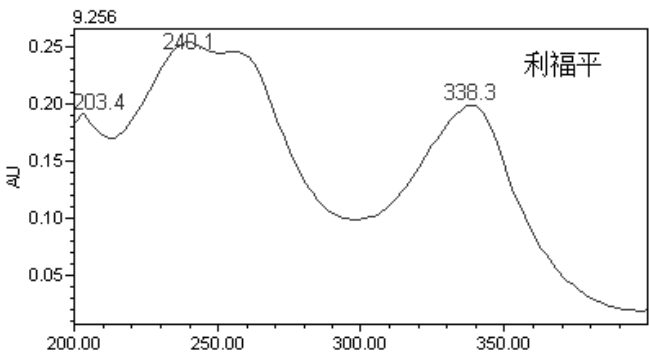
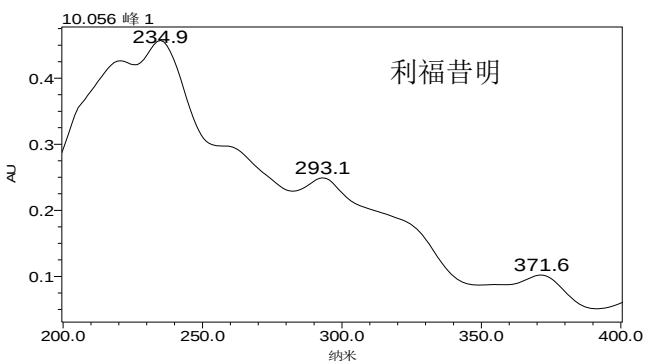
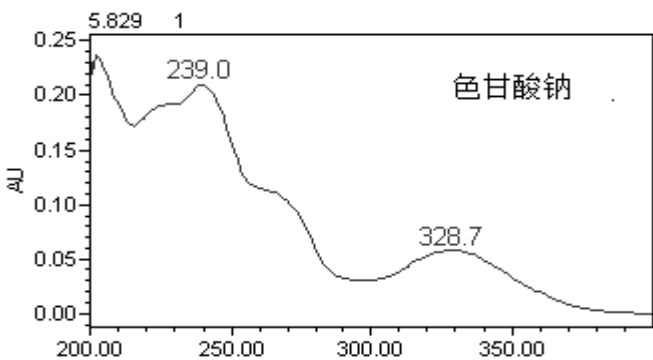
	200-2	213.3 285.4 361.0	
氯苯喋啶	201-1	218.8 363.1	
氯噻酮	202-1	278.3	
盐酸氯丙嗪	203-1	258.0 309.5	
	203-2		不出峰

赛拉嗪	204-1	248.5	 UV-Vis spectrum of 赛拉嗪 (Serafen). The x-axis represents wavelength in nanometers (nm) from 200.00 to 350.00. The y-axis represents absorbance (AU) from 0.00 to 0.10. The spectrum shows a peak at 203.4 nm and a shoulder at 248.5 nm.
盐酸右美托咪啶	205-1	263.2	 UV-Vis spectrum of 盐酸右美托咪啶 (Dexmedetomidine HCl). The x-axis represents wavelength in nanometers (nm) from 200.00 to 400.00. The y-axis represents absorbance (AU) from 0.00 to 0.60. The spectrum shows a peak at 203.0 nm and a shoulder at 263.2 nm.
盐酸氯米帕明	206-1	251.5	 UV-Vis spectrum of 盐酸氯米帕明 (Clomipramine HCl). The x-axis represents wavelength in nanometers (nm) from 200.0 to 400.0. The y-axis represents absorbance (AU) from 0.00 to 0.60. The spectrum shows a peak at 205.4 nm and a shoulder at 251.5 nm.
盐酸丙米嗪	207-1	211.3 250.3	 UV-Vis spectrum of 盐酸丙米嗪 (Imipramine HCl). The x-axis represents wavelength in nanometers (nm) from 200.0 to 400.0. The y-axis represents absorbance (AU) from 0.00 to 0.50. The spectrum shows a peak at 211.3 nm and a shoulder at 250.3 nm.

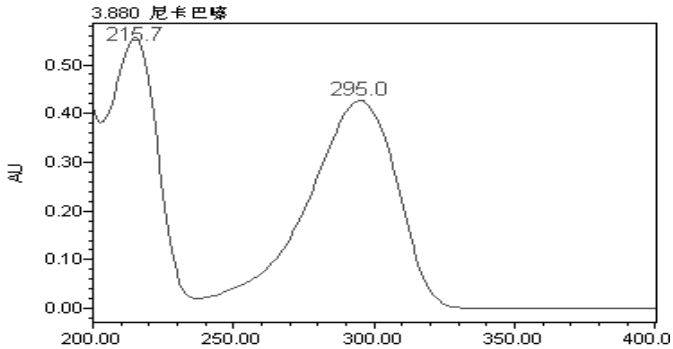
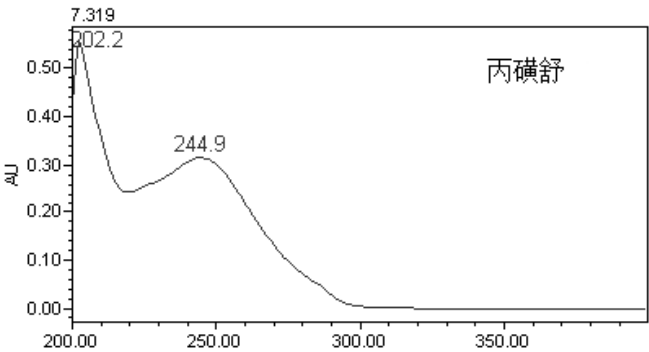
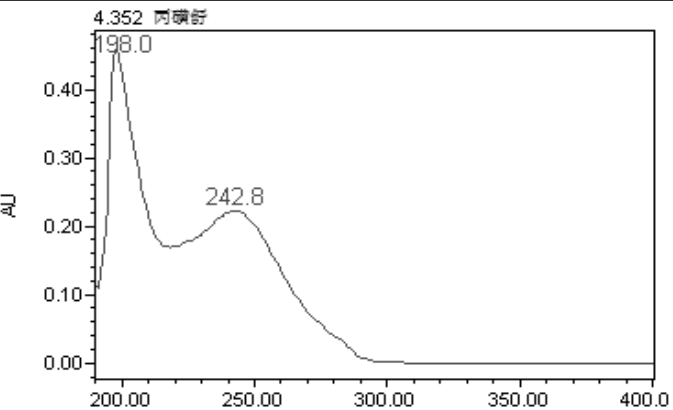
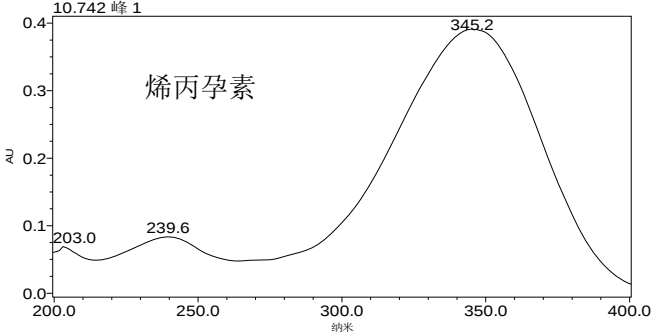
米氮平	208-1	288.3	
盐酸利多卡因	209-1	202.2	
	209- 2	198.0	
维生素 B ₁	210-1	236.6 265.2	

维生素 B ₆	211-1	256.2 290.7 325.3	
维生素 C	212-1	265.7	
甲萘醌	213-1	250.3 337.2	
烟酰胺	214-1	216.4 264.0	

	214-2	213.3 261.7	 3.890 烟酰胺 213.3 261.7 AU 200.00 250.00 300.00 350.00 400.0
克仑特罗	215-1	211.7 246.1 299.9	 5.445 211.7 246.1 299.9 AU 200.00 250.00 300.00 350.00 克仑特罗
	215-2	242.8 296.1	 34.961 克仑特罗 209.8 242.8 296.1 AU 200.00 250.00 300.00 350.00 400.0
莱克多巴胺	216-1	224.7 277.1	 5.092 224.7 277.1 AU 200.00 250.00 300.00 350.00 莱克多巴胺

	216-2	221.5 274.8 (双头峰)	 UV spectrum showing absorbance (AU) versus wavelength (nm) for a sample with peaks at 221.5 nm and 274.8 nm. The y-axis ranges from 0.000 to 0.040 AU, and the x-axis ranges from 200.00 to 400.0 nm. The spectrum shows a small peak at 221.5 nm and a larger peak at 274.8 nm. Other labeled peaks include 195.7, 228.15, and 392.9.
利福平	217-1	240.1 338.3	 UV spectrum of Rifampin (利福平) showing absorbance (AU) versus wavelength (nm). The y-axis ranges from 0.05 to 0.25 AU, and the x-axis ranges from 200.00 to 350.00 nm. The spectrum shows peaks at 203.4, 240.1, and 338.3 nm.
	217-2		不出峰
利福昔明	218-1	234.9 293.1 371.6	 UV spectrum of Rifampin (利福昔明) showing absorbance (AU) versus wavelength (nm). The y-axis ranges from 0.1 to 0.4 AU, and the x-axis ranges from 200.0 to 400.0 nm. The spectrum shows peaks at 10.056, 234.9, 293.1, and 371.6 nm.
色甘酸钠	219-1	239.0 328.7	 UV spectrum of Cromoglycate (色甘酸钠) showing absorbance (AU) versus wavelength (nm). The y-axis ranges from 0.00 to 0.25 AU, and the x-axis ranges from 200.00 to 350.00 nm. The spectrum shows peaks at 5.829, 239.0, and 328.7 nm.

喹烯酮	220-1	234.2 261.6 316.7	
	220-2		不出峰
卡巴氧	221-1	240.1 308.3 378.8	
	221-2	236.9 304.5 376.0	
尼卡巴嗪	222-1	217.6 297.5	

	222-2	215.7 295.0	 3.880 尼克巴嗒
丙磺舒	223-1	202.2 244.9	 7.319 丙磺舒
	223-2	242.8	 4.352 丙磺舒 水相:有机相 40:60
烯丙孕素	224-1	239.6 345.2	 10.742 峰 1

兽药中添加辅料快速筛查法
(超高效液相色谱—二极管阵列法)

1 适用范围

1.1 本方法适用于兽药中紫外光谱图库中所列辅料的筛查。

1.2 用于紫外光谱图库之外的具有紫外吸收的辅料的筛查时，需进行空白试验和检测限测定，并测定对照品溶液的紫外光谱图。

2 检查方法

按照高效液相色谱法（《中国兽药典》一部附录 0512）测定。

色谱条件与系统适用性试验 用十八烷基硅烷键合硅胶为填充剂（ACQUITY UPLC HSS T3, 1.8μm, 2.1×100mm）；以水-1mol/L 醋酸铵溶液（取醋酸铵 77g，加水至 1000ml，用冰醋酸调节 pH 值至 5.0）（99：1）为流动相 A，甲醇-1mol/L 醋酸铵溶液（99：1）为流动相 B，按下表进行线性梯度洗脱；流速每分钟 0.45ml；二极管阵列检测器，采集波长范围为 200nm～400nm，分辨率为 1.2nm，提取波长按需设定（如 230nm、270nm、最大值图等）。

时间（分钟）	流动相 A（%）	流动相 B（%）
0.00	98	2
0.25	98	2
12.25	1	99
13.00	1	99
13.01	98	2
17.00	98	2

供试品溶液的配制 中药固体制剂 取 50mg，加 50%甲醇溶液 10ml，超声 10 分钟（必要时可调整）；

中药液体制剂 取 10μl~20μl，加 50%甲醇溶液 10ml，摇匀；

化药液体制剂 取 20μl，加 50%甲醇溶液 10ml，摇匀；

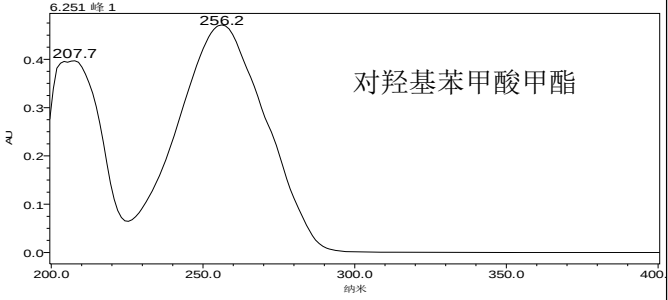
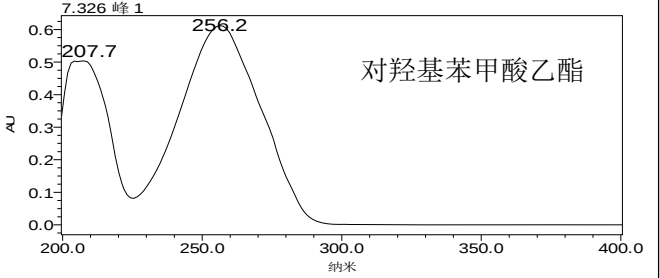
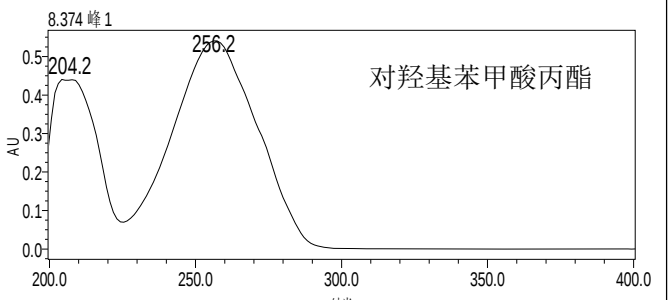
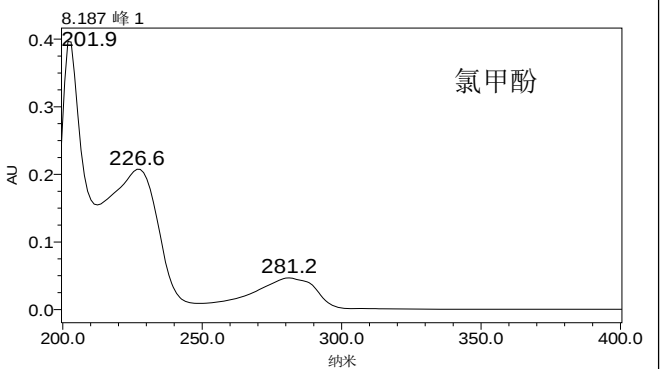
其他化药制剂 取 50mg，加 50%甲醇溶液 10ml，超声 10 分钟（必要时可调整），用 50%甲醇溶液稀释制成每 1ml 中约含有效成分 50μg~100μg 的溶液。

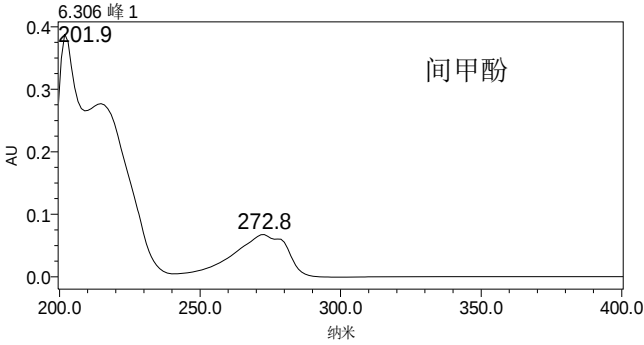
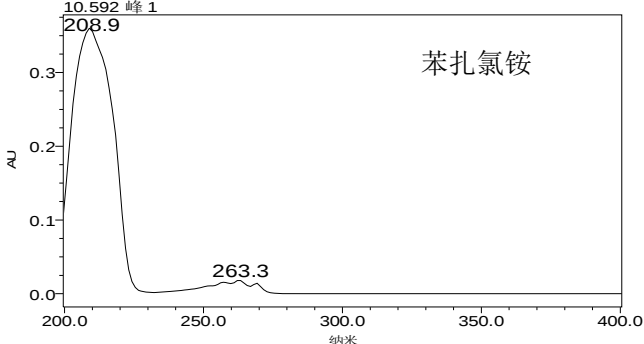
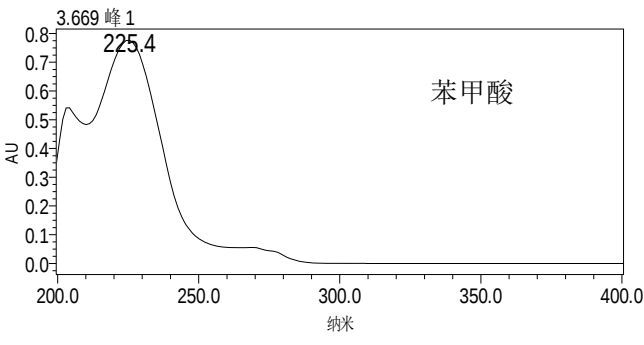
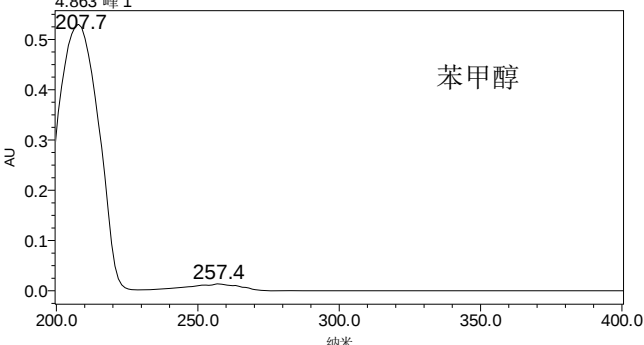
对照品溶液的配制（紫外光谱图库外品种） 取对照品适量，用 50%甲醇溶液溶解并稀释制成每 1ml 中约含 50 μ g~100 μ g 的溶液，溶解性差的对照品，可加适量盐酸溶液或氢氧化钾溶液使其溶解。

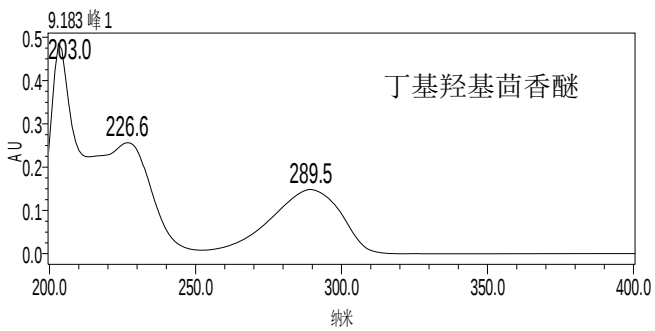
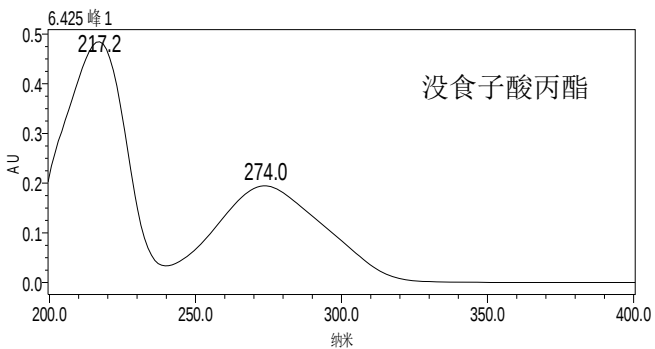
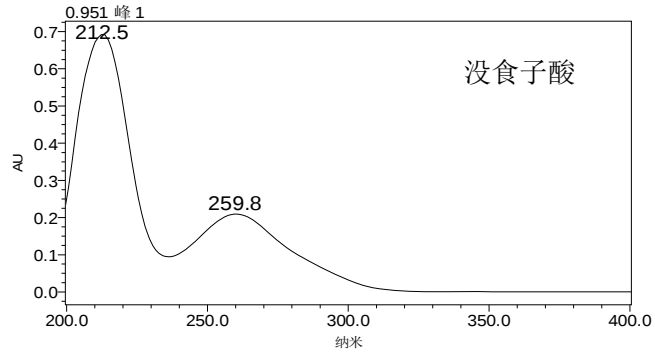
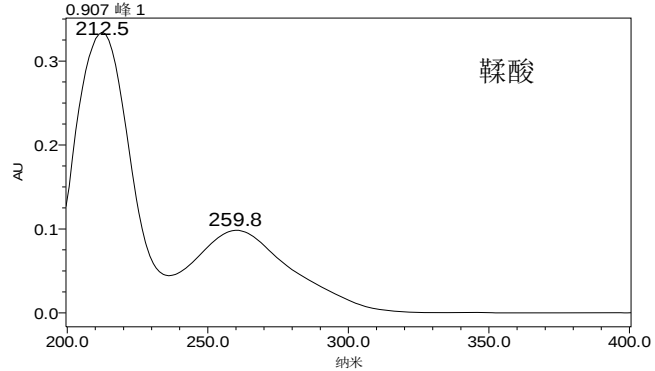
测定法 取供试品溶液 2 μ l，注入液相色谱仪，同时记录色谱图与光谱图。通过与紫外光谱图库中对照光谱图最大吸收波长和图形比对，确定供试品中是否含有相应辅料。可根据实验结果调整进样量或浓度，使紫外光谱图光滑、特征清晰。

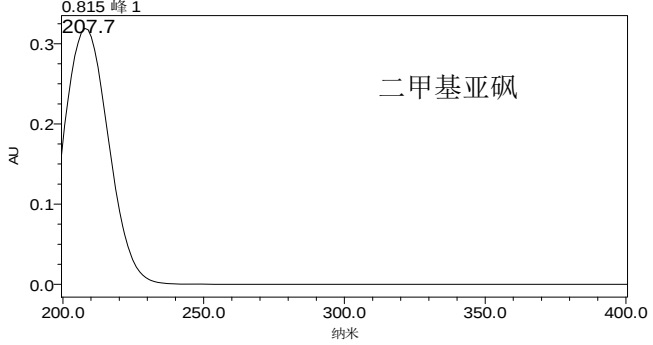
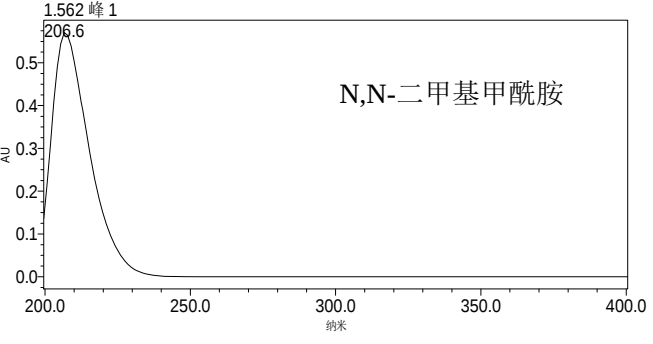
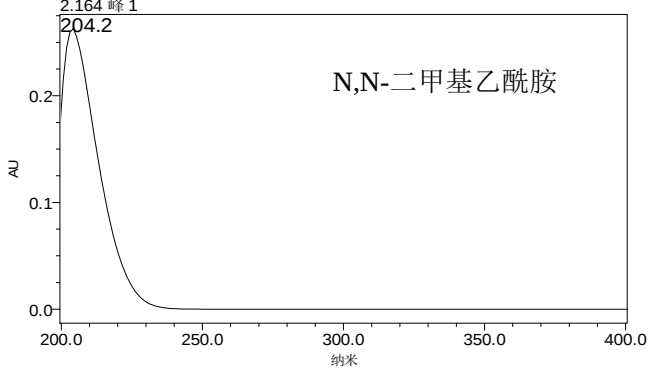
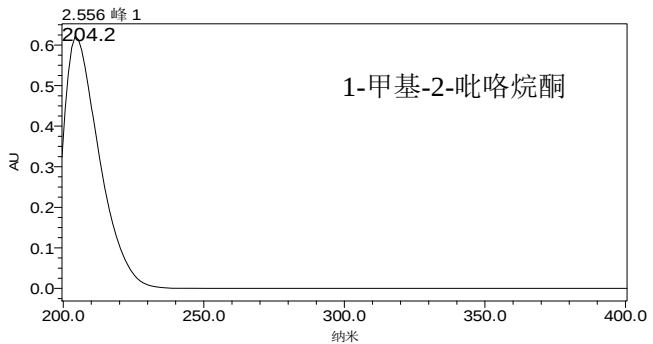
结果判定 供试品溶液光谱图与紫外光谱图库中对应光谱图无明显差异，判为可疑阳性结果。筛查结果呈可疑阳性的样品，需根据该样品备案的处方工艺进一步判断是否为处方外添加成分。

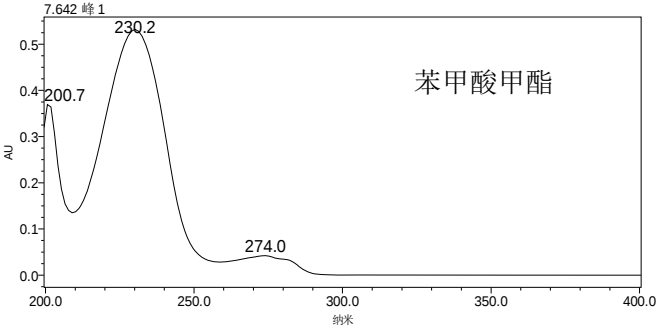
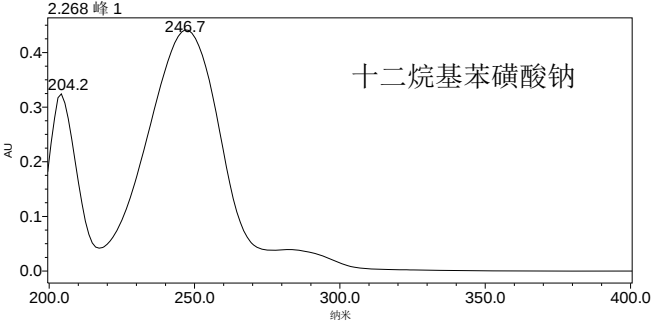
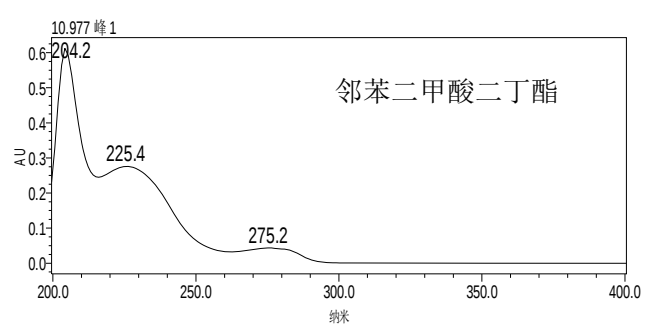
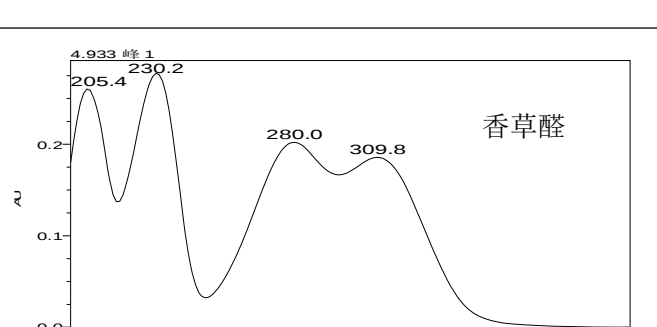
附：辅料紫外光谱图库

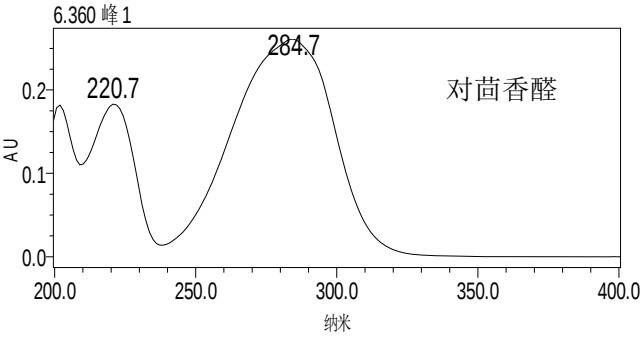
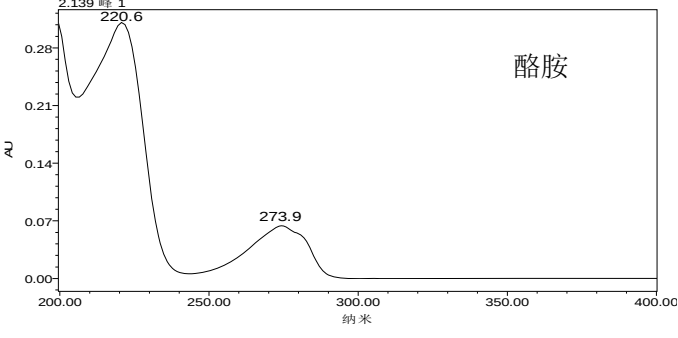
辅料紫外光谱图库			
名称	编号	最大吸收波长(nm)	光谱图
对羟基苯甲酸甲酯	1	256.2	 6.251 峰 1 207.7 256.2 对羟基苯甲酸甲酯
对羟基苯甲酸乙酯	2	256.2	 7.326 峰 1 207.7 256.2 对羟基苯甲酸乙酯
对羟基苯甲酸丙酯	3	256.2	 8.374 峰 1 204.2 256.2 对羟基苯甲酸丙酯
氯甲酚	4	226.6 281.2	 8.187 峰 1 201.9 226.6 281.2 氯甲酚

间甲酚	5	272.8	 UV-Vis spectrum of 间甲酚 (m-cresol). The x-axis represents wavelength in nm (200.0 to 400.0), and the y-axis represents absorbance (AU) (0.0 to 0.4). The spectrum shows a broad peak at 201.9 nm (labeled 6.306 峰 1) and a smaller peak at 272.8 nm.
苯扎氯铵	6	263.3	 UV-Vis spectrum of 苯扎氯铵 (benzalkonium chloride). The x-axis represents wavelength in nm (200.0 to 400.0), and the y-axis represents absorbance (AU) (0.0 to 0.3). The spectrum shows a sharp peak at 208.9 nm (labeled 10.592 峰 1) and a small peak at 263.3 nm.
苯甲酸	7	225.4	 UV-Vis spectrum of 苯甲酸 (benzoic acid). The x-axis represents wavelength in nm (200.0 to 400.0), and the y-axis represents absorbance (AU) (0.0 to 0.8). The spectrum shows a broad peak at 225.4 nm (labeled 3.669 峰 1) and a smaller peak at 207.7 nm.
苯甲醇	8	257.4	 UV-Vis spectrum of 苯甲醇 (benzyl alcohol). The x-axis represents wavelength in nm (200.0 to 400.0), and the y-axis represents absorbance (AU) (0.0 to 0.5). The spectrum shows a sharp peak at 207.7 nm (labeled 4.863 峰 1) and a small peak at 257.4 nm.

丁基羟基茴香醚	9	226.6 289.5	
没食子酸丙酯	10	217.2 274.0	
没食子酸	11	212.5 259.8	
鞣酸	12	212.5 259.8	

二甲基亚砷	13	207.7	 UV-Vis spectrum of dimethylarsine (二甲基亚砷). The x-axis represents wavelength in nanometers (纳米) from 200.0 to 400.0. The y-axis represents absorbance (AU) from 0.0 to 0.3. A single sharp peak is observed at 207.7 nm, labeled '0.815 峰 1'.
N,N-二甲基甲酰胺	14	206.6	 UV-Vis spectrum of N,N-dimethylformamide (N,N-二甲基甲酰胺). The x-axis represents wavelength in nanometers (纳米) from 200.0 to 400.0. The y-axis represents absorbance (AU) from 0.0 to 0.5. A single sharp peak is observed at 206.6 nm, labeled '1.562 峰 1'.
N,N-二甲基乙酰胺	15	204.2	 UV-Vis spectrum of N,N-dimethylacetamide (N,N-二甲基乙酰胺). The x-axis represents wavelength in nanometers (纳米) from 200.0 to 400.0. The y-axis represents absorbance (AU) from 0.0 to 0.2. A single sharp peak is observed at 204.2 nm, labeled '2.164 峰 1'.
1-甲基-2-吡咯烷酮	16	204.2	 UV-Vis spectrum of 1-methyl-2-pyrrolidone (1-甲基-2-吡咯烷酮). The x-axis represents wavelength in nanometers (纳米) from 200.0 to 400.0. The y-axis represents absorbance (AU) from 0.0 to 0.6. A single sharp peak is observed at 204.2 nm, labeled '2.556 峰 1'.

苯甲酸甲酯	17	230.2 274.0	 UV spectrum of methyl benzoate (苯甲酸甲酯). The x-axis represents wavelength in nanometers (200.0 to 400.0 nm), and the y-axis represents absorbance (AU, 0.0 to 0.5). The spectrum shows a peak at 200.7 nm (labeled 7.642 峰 1), a major peak at 230.2 nm, and a shoulder at 274.0 nm.
十二烷基苯磺酸钠	18	246.7	 UV spectrum of sodium dodecylbenzenesulfonate (十二烷基苯磺酸钠). The x-axis represents wavelength in nanometers (200.0 to 400.0 nm), and the y-axis represents absorbance (AU, 0.0 to 0.4). The spectrum shows a peak at 204.2 nm (labeled 2.268 峰 1) and a major peak at 246.7 nm.
邻苯二甲酸二丁酯	19	225.4 275.2	 UV spectrum of dibutyl phthalate (邻苯二甲酸二丁酯). The x-axis represents wavelength in nanometers (200.0 to 400.0 nm), and the y-axis represents absorbance (AU, 0.0 to 0.6). The spectrum shows a peak at 204.2 nm (labeled 10.977 峰 1), a shoulder at 225.4 nm, and a peak at 275.2 nm.
香草醛	20	230.2 280.0 309.8	 UV spectrum of vanillin (香草醛). The x-axis represents wavelength in nanometers (200.0 to 400.0 nm), and the y-axis represents absorbance (AU, 0.0 to 0.2). The spectrum shows a peak at 205.4 nm (labeled 4.933 峰 1), a major peak at 230.2 nm, and two additional peaks at 280.0 nm and 309.8 nm.

对茴香醛	21	220.7 284.7	 6.360 峰 1 220.7 284.7 AU 对茴香醛 200.0 250.0 300.0 350.0 400.0 纳米
酪胺	22	220.6 273.9	 2.139 峰 1 220.6 273.9 AU 酪胺 200.00 250.00 300.00 350.00 400.00 纳米