



山东致纯生物科技有限公司

Shandong Hitide Biology Technology Co., LTD.

头孢类、青霉素类 (Cephalosporin and Penicillin)

药物杂质列表

List of Drug Impurities



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Shandong Super-purity Biology Technology Co., LTD.

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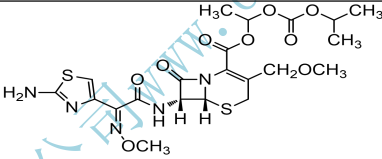
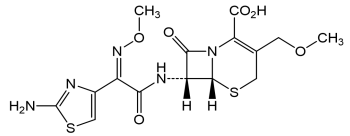
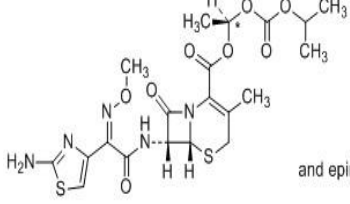
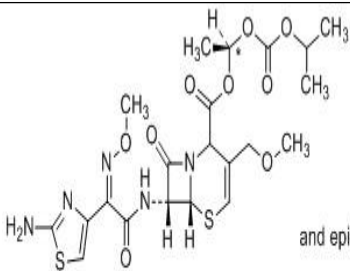
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一、头孢类、青霉素类药物杂质列表 (Spot list of impurities)

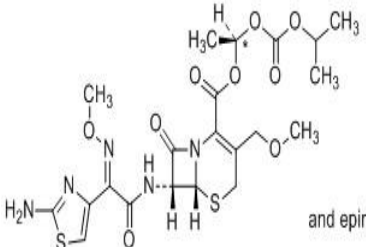
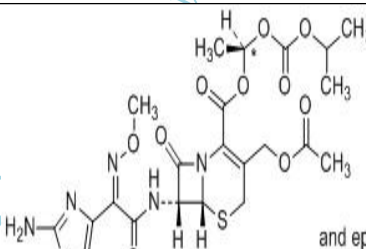
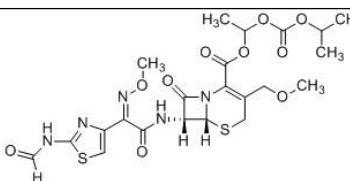
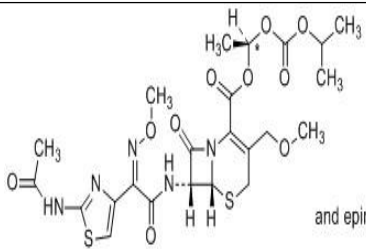
1. 头孢泊肟酯相关杂质 Cefpodoxime Proxetil impurities

序号	杂质名称	英文名称	CAS 号	结构式
原料参比物质(非卖品)	头孢泊肟酯	Cefpodoxime Proxetil	87239-81-4	 <p>Chemical Formula: C₂₁H₂₇N₅O₉S₂ Exact Mass: 557.12502 Molecular Weight: 557.59718</p>
1-01-01	杂质 A	Cefpodoxime Proxetil impurity A	80210-62-4	 <p>Chemical Formula: C₁₅H₁₇N₅O₆S₂ Exact Mass: 427.06202 Molecular Weight: 427.45538</p>
1-01-02	杂质 B	Cefpodoxime Proxetil impurity B	947692-14-0	 <p>and epimer at C*</p> <p>Chemical Formula: C₂₀H₂₅N₅O₈S₂ Exact Mass: 527.11445 Molecular Weight: 527.56700</p>
1-01-03	杂质 C	Cefpodoxime Proxetil impurity C	339528-86-8	 <p>and epimer at C*</p> <p>Chemical Formula: C₂₁H₂₇N₅O₉S₂ Exact Mass: 557.12502 Molecular Weight: 557.59300</p>



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1-01-04	杂质 D	Cefpodoxime Proxetil impurity D	947692-13-9	 <p>and epimer at C*</p> <p>Chemical Formula: $C_{21}H_{27}N_5O_9S_2$ Exact Mass: 557.12502 Molecular Weight: 557.59300</p>
1-01-05	杂质 E	Cefpodoxime Proxetil impurity E	217803-89-9	 <p>and epimer at C*</p> <p>Chemical Formula: $C_{22}H_{27}N_5O_{10}S_2$ Exact Mass: 585.11993 Molecular Weight: 585.60300</p>
1-01-06	杂质 F	Cefpodoxime Proxetil impurity F	96680-30-7	 <p>Chemical Formula: $C_{22}H_{27}N_5O_{10}S_2$ Exact Mass: 585.12 Molecular Weight: 585.60</p>
1-01-07	杂质 G	Cefpodoxime Proxetil impurity G	947692-15-1	 <p>and epimer at C*</p> <p>Chemical Formula: $C_{23}H_{29}N_5O_{10}S_2$ Exact Mass: 599.13558 Molecular Weight: 599.63000</p>



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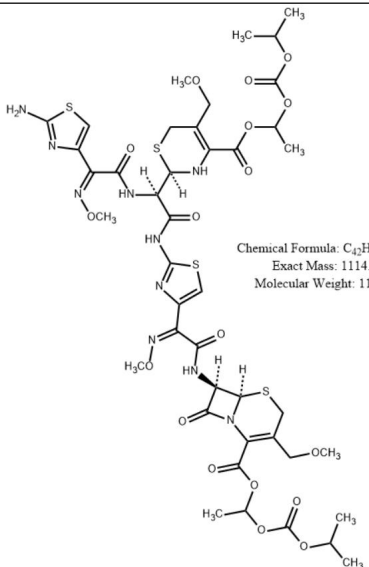
1-01-08	杂质 I	Cefpodoxime Proxetil impurity I	N/A	<p>Chemical Formula: $C_{25}H_{33}N_5O_{11}S_2$ Exact Mass: 643.16180 Molecular Weight: 643.68300</p>
1-01-09	杂质 J	Cefpodoxime Proxetil impurity J	N/A	<p>Chemical Formula: $C_{21}H_{27}N_3O_{10}S_2$ Exact Mass: 573.11993 Molecular Weight: 573.59658</p>
1-01-10	杂质 K	Cefpodoxime Proxetil impurity K	N/A	<p>Chemical Formula: $C_{21}H_{27}N_3O_{10}S_2$ Exact Mass: 573.11993 Molecular Weight: 573.59658</p>
1-01-10-1	反式亚砷	Cefpodoxime Proxetil E-sulfoxide	N/A	<p>及在C*处的差向异构体</p>
1-01-11	杂质 L	Cefpodoxime Proxetil impurity L	N/A	<p>Chemical Formula: $C_{20}H_{25}N_5O_9S_2$ Exact Mass: 543.11 Molecular Weight: 543.57</p>

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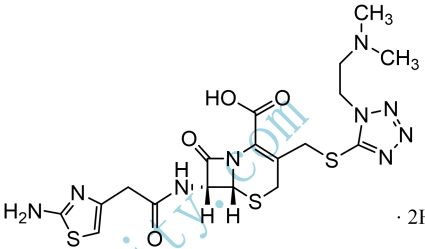
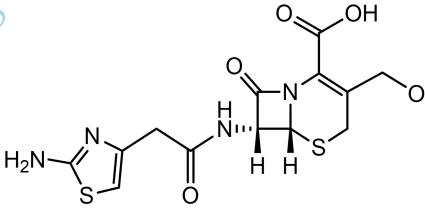
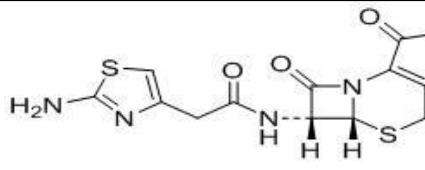
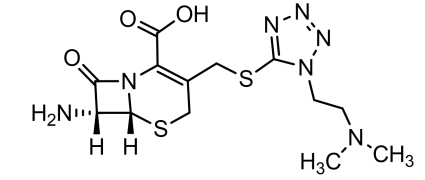
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1-01-12	杂质 H	Cefpodoxime Proxetil impurity H	N/A	 <p>Chemical Formula: $C_{17}H_{14}N_2O_5S_4$ Exact Mass: 1114.2500 Molecular Weight: 1115.1944</p>
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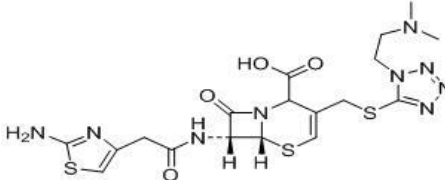
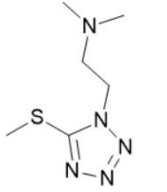
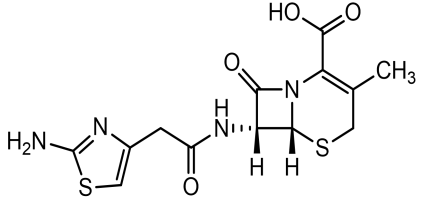
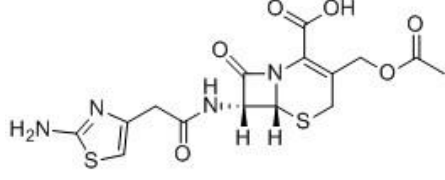
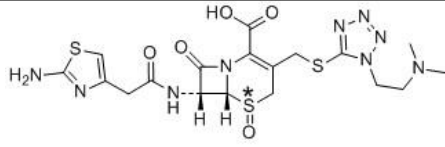
2. 头孢替安相关杂质 Cefotiam impurities

序号	杂质名称	英文名称	CAS 号	结构式
原料参比物质(非卖品)	头孢替安	Cefotiam	66309-69-1 (盐酸盐) 61622-34-2 (酸)	 <p>Chemical Formula: $C_{18}H_{25}Cl_2N_9O_4S_3$ Exact Mass: 597.06 Molecular Weight: 598.55</p>
1-02-01	杂质 1 (脱四氮唑头孢替安)	Cefotiam impurity 1	775233-43-7	 <p>Chemical Formula: $C_{13}H_{14}N_4O_5S_2$ Exact Mass: 370.04 Molecular Weight: 370.40</p>
1-02-02	杂质 7 (头孢替安内酯)	Cefotiam impurity 7	N/A	 <p>Chemical Formula: $C_{13}H_{12}N_4O_4S_2$ Exact Mass: 352.0300 Molecular Weight: 352.3830</p>
1-02-03	(母核)杂质 8	Cefotiam impurity 8	61607-66-7	 <p>Chemical Formula: $C_{13}H_{10}N_7O_3S_2$ Exact Mass: 385.10 Molecular Weight: 385.47</p>



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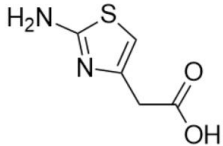
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1-02-04	双键位移 杂质	Cefotiam impurity δ^3	142182-63-6	 <p>Chemical Formula: $C_{18}H_{23}N_9O_4S_3$ Exact Mass: 525.1035 Molecular Weight: 525.6210</p>
1-02-05	头孢替安 杂质 3 位 侧链	Cefotiam impurity 3 side chains	61607-68-9	 <p>Chemical Formula: $C_6H_{13}N_5S$ Exact Mass: 187.0892 Molecular Weight: 187.2659</p>
1-02-06	3-甲基头 孢替安	3- methyl Cefotiamine	58684-56-3	 <p>Chemical Formula: $C_{13}H_{14}N_4O_4S_2$ Exact Mass: 354.05 Molecular Weight: 354.40</p>
1-02-07	3-乙酰氧 基头孢天	3-acetoxy- cefotiam	58233-18-4	 <p>Chemical Formula: $C_{15}H_{16}N_4O_6S_2$ Exact Mass: 412.05113 Molecular Weight: 412.43500</p>
1-02-08	头孢替安 氧化杂质	Cefotiam Oxide Impurity	/	 <p>Chemical Formula: $C_{18}H_{23}N_9O_5S_3$ Exact Mass: 541.09843 Molecular Weight: 541.62000</p>



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1-2-9	头孢替安 7-位侧链	7-side chain	29676-71-9	 Chemical Formula: C ₅ H ₆ N ₂ O ₂ S Exact Mass: 158.0150 Molecular Weight: 158.1783
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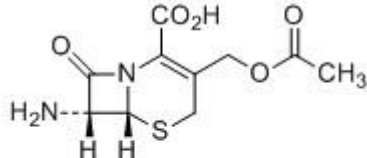
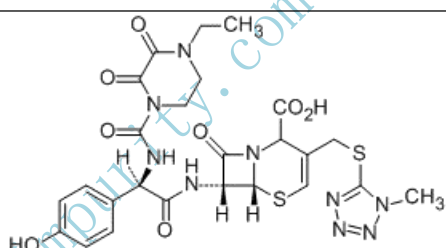
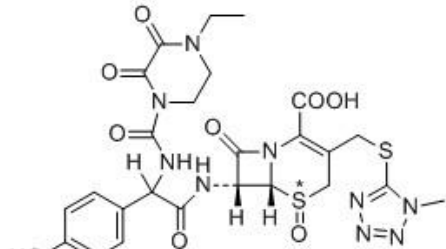

3. 头孢哌酮相关杂质 Cefoperazone impurities

序号	杂质名称	英文名称	CAS 号	结构式
原料参 比物质 (非卖 品)	头孢哌酮 钠	Cefoperazone	62893-20-3	<p>Chemical Formula: $C_{25}H_{26}N_9NaO_8S_2$ Exact Mass: 667.1243 Molecular Weight: 667.6478</p>
1-03-01	杂质 A	Cefoperazone impurity A	73240-08-1	<p>Chemical Formula: $C_{23}H_{23}N_5O_8S$ Exact Mass: 529.12673 Molecular Weight: 529.52400</p>
1-03-02	杂质 B	Cefoperazone impurity B		<p>Chemical Formula: $C_{23}H_{27}N_9O_8S_2$ Exact Mass: 645.1424 Molecular Weight: 645.6674</p>
1-03-02	杂质 C (甲巯四 氮唑)	Cefoperazone impurity C	13183-79-4	<p>Chemical Formula: $C_2H_4N_4S$ Exact Mass: 116.01567 Molecular Weight: 116.14200</p>



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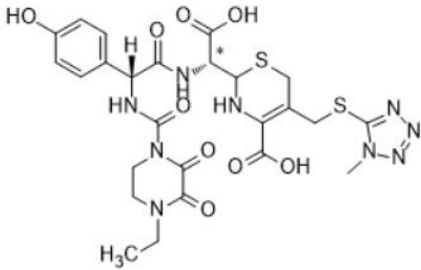
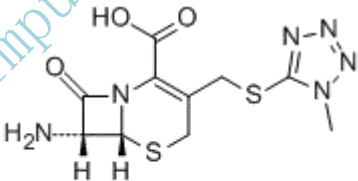
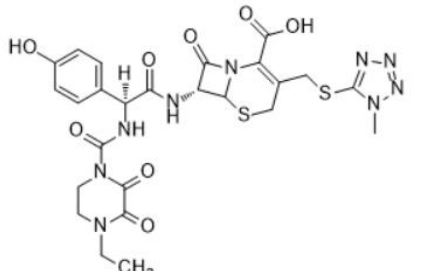
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1-03-03	杂质 E (7-ACA)	Cefoperazone impurity E	597-68-6	 <p>Chemical Formula: C₁₀H₁₂N₂O₅S Exact Mass: 272.04669 Molecular Weight: 272.27500</p>
1-03-04	头孢哌酮 双键位移	Cefoperazone double bond displacement	1315481-36-7	 <p>Chemical Formula: C₂₅H₂₇N₉O₈S₂ Exact Mass: 645.14240 Molecular Weight: 645.66738</p>
1-03-05	头孢哌酮 氧化杂质	Cefoperazone oxidized impurity	N/A	 <p>Chemical Formula: C₂₅H₂₇N₉O₉S₂ Exact Mass: 661.13731 Molecular Weight: 661.66500</p>
1-03-06	头孢哌酮 开环内酯	Cefoperazone Open-Ring Lactone	N/A	 <p>Chemical Formula: C₂₃H₂₅N₅O₉S Exact Mass: 547.13730 Molecular Weight: 547.53900</p>

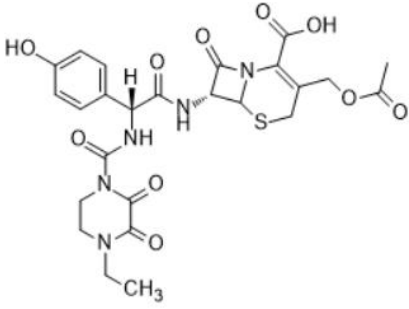
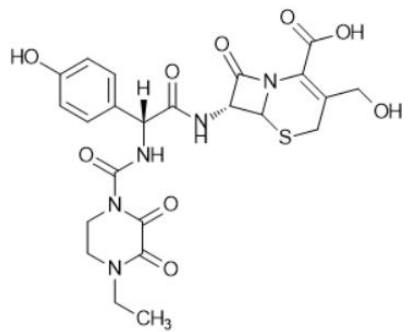


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1-3-7	头孢哌酮 开环杂质 PT-KH	Cefoperazone Open		 <p>Chemical Formula: C₂₅H₂₉N₉O₉S₂ Exact Mass: 663.1530 Molecular Weight: 663.6827</p>
1-03-08	7-TMCA(头 孢甲肟, 头 孢哌酮, 头 孢米诺、头 孢美唑母核 中间体)	Cefoperazone Intermediate	24209-38-9	 <p>Chemical Formula: C₁₀H₁₂N₆O₃S₂ Exact Mass: 328.04123 Molecular Weight: 328.37068</p>
1-3-9	L-头孢哌 酮	L-Cefoperazone		 <p>Chemical Formula: C₂₅H₂₇N₉O₈S₂ Exact Mass: 645.1424 Molecular Weight: 645.6674</p>



1-3-10	PT-OAc	PT-OAc	N/A	 <p>Chemical Formula: C₂₅H₂₇N₅O₁₀S Exact Mass: 589.1479 Molecular Weight: 589.5744</p>
1-3-11	PT-OH	PT-OH	N/A	 <p>Chemical Formula: C₂₃H₂₅N₅O₉S Exact Mass: 547.1373 Molecular Weight: 547.5377</p>
1-3-12	PT-B			

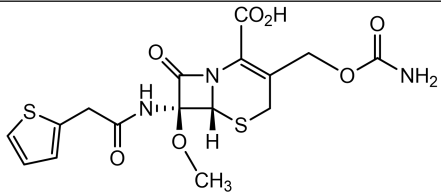
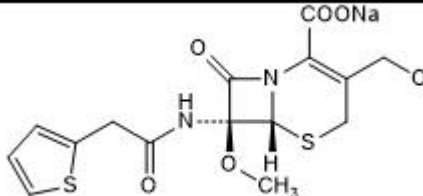
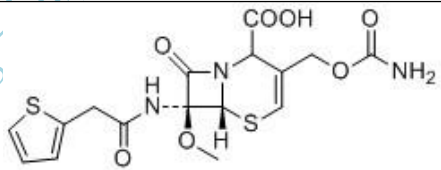
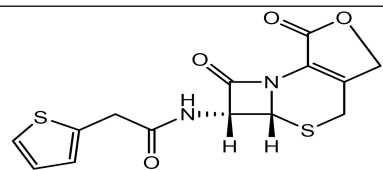
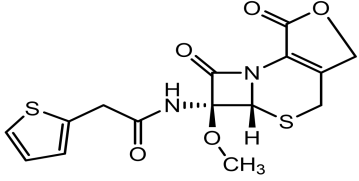
4. 头孢西丁杂质 Cefoxitin impurities

序号	杂质名称	英文名称	CAS 号	结构式
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原料参 比物质 (非卖 品)	头孢西丁	Cefoxitin	35607-66-0 (酸) 33564-30-6 (钠 盐)	 <p>Chemical Formula: $C_{16}H_{17}N_3O_7S_2$ Exact Mass: 427.05 Molecular Weight: 427.45</p>
1-04-01	杂质 A	Cefoxitin impurity A	54333-94-7	 <p>Chemical Formula: $C_{16}H_{17}N_3O_7S_2$ Exact Mass: 427.05 Molecular Weight: 427.45</p>
1-04-02	杂质 B	Cefoxitin impurity B	1422023-32-2	 <p>Chemical Formula: $C_{16}H_{17}N_3O_7S_2$ Exact Mass: 427.05079 Molecular Weight: 427.44600</p>
1-04-03	杂质 C	Cefoxitin impurity C	10590-10-0	 <p>Chemical Formula: $C_{14}H_{12}N_2O_4S_2$ Exact Mass: 336.02 Molecular Weight: 336.39</p>
1-04-04	杂质 D	Cefoxitin impurity D	1422023-33-3	 <p>Chemical Formula: $C_{15}H_{14}N_2O_5S_2$ Exact Mass: 366.03 Molecular Weight: 366.41</p>



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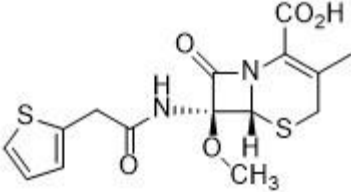
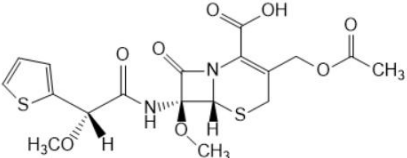
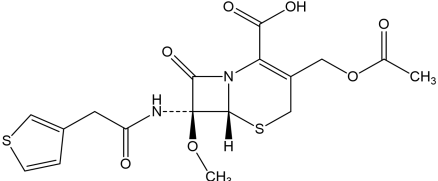
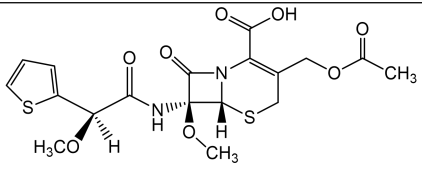
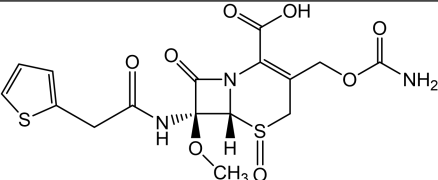
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1-04-05	杂质 E(双甲氧基化杂质)	Cefoxitin impurity E	N/A	<p>Chemical Formula: C₁₇H₁₉N₃O₈S₂ Exact Mass: 457.06 Molecular Weight: 457.48</p>
1-04-06	杂质 F(双甲氧基化杂质)	Cefoxitin impurity F	N/A	<p>Chemical Formula: C₁₇H₁₉N₃O₈S₂ Exact Mass: 457.06 Molecular Weight: 457.48</p>
1-04-07	3-噻吩头孢西丁异构体 (EP-D)	Cefoxitin 3-thiophene isomer	N/A	<p>Chemical Formula: C₁₆H₁₇N₃O₇S₂ Exact Mass: 427.05 Molecular Weight: 427.45</p>
1-04-08	头孢西丁钠杂质 DSF	Cefoxitin impurity DSF	N/A	<p>Chemical Formula: C₁₄H₁₄N₂O₅S₂ Exact Mass: 354.03 Molecular Weight: 354.40</p>
1-04-09	头孢西丁钠杂质 DOSF	Cefoxitin impurity DOSF	N/A	<p>Chemical Formula: C₁₄H₁₄N₂O₄S₂ Exact Mass: 338.04 Molecular Weight: 338.40</p>



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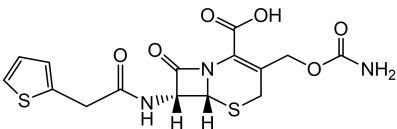
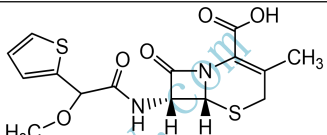
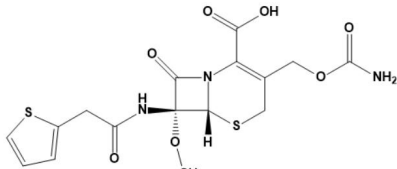
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1-04-10	头孢西丁 钠杂质 DO-XD 甲基头孢 西丁（去 乙酰氧西 丁，可能 是EP-J)	Cefoxitin impurity DO-XD	N/A	 <p>Chemical Formula: $C_{15}H_{18}N_2O_5S_2$ Exact Mass: 368.05006 Molecular Weight: 368.42200</p>
1-04-11	头孢西丁 钠杂质 DMOCT1	Cefoxitin impurityDMOC T1	N/A	 <p>Chemical Formula: $C_{18}H_{20}N_2O_8S_2$ Exact Mass: 456.07 Molecular Weight: 456.49</p>
1-04-12	7-甲氧基- 3-噻吩头 孢噻吩酸 (7M3SF)	7-methoxy-3- position cephalosporin impurity	N/A	 <p>Chemical Formula: $C_{17}H_{18}N_2O_7S_2$ Exact Mass: 426.06 Molecular Weight: 426.46</p>
1-04-13	头孢西丁 钠杂质 DMOCT2	Cefoxitin impurityDMOC T2	N/A	 <p>Chemical Formula: $C_{18}H_{20}N_2O_8S_2$ Exact Mass: 456.07 Molecular Weight: 456.49</p>
1-04-14	头孢西丁 钠杂质 XD-O	Cefoxitin impurity XD-O	N/A	 <p>Chemical Formula: $C_{16}H_{17}N_3O_8S_2$ Exact Mass: 443.05 Molecular Weight: 443.45</p>



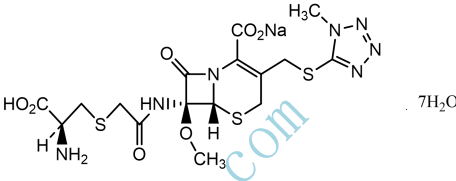
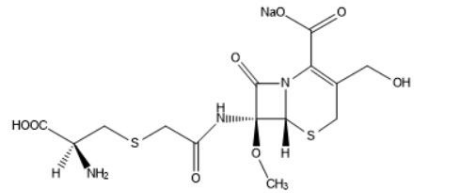
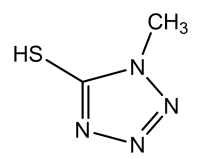
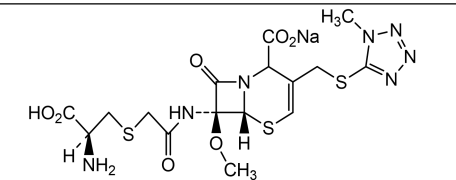
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1-04-15	去甲氧基 头孢西丁 酸 (D-XD, 头孢西丁 杂质 H)	Demethoxy cefoxitin acid	37051-05-1	 <p>Chemical Formula: C₁₅H₁₅N₃O₆S₂ Exact Mass: 397.04 Molecular Weight: 397.43</p>
1-04-16	DOMOCT	DOMOCT	N/A	 <p>Chemical Formula: C₁₅H₁₆N₂O₅S₂ Exact Mass: 368.05 Molecular Weight: 368.43</p>
1-04-17	7β -甲氧 基头孢西 丁 (简称 6R,7S- XD)	7β -methoxy- Cefoxitin Isomer impurity(6R,7S- XD)	N/A	 <p>Chemical Formula: C₁₆H₁₇N₃O₇S₂ Exact Mass: 427.05 Molecular Weight: 427.45</p>



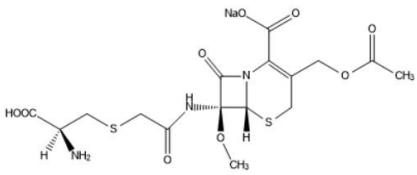
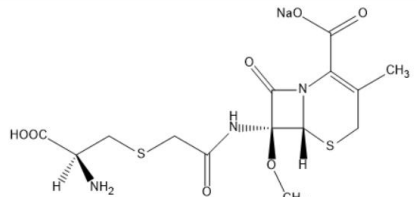
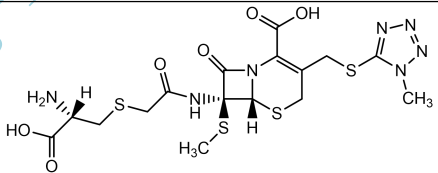
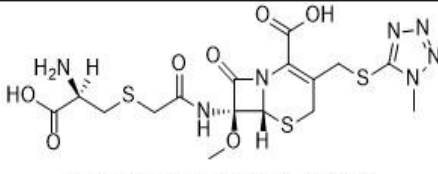
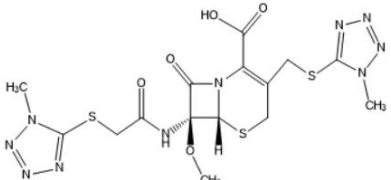
5. 头孢米诺钠杂质 Cefminox sodium impurities

序号	杂质名称	英文名称	CAS 号	结构式
原料参 比物质 (非卖 品)	头孢米诺 钠	Cefminox sodium	92636-39-0	 <p>Chemical Formula: $C_{16}H_{34}N_7NaO_{14}S_3$ Exact Mass: 667.12 Molecular Weight: 667.66</p>
1-05-01	杂质 I (脱四氮唑 头孢米诺, 3-OH-头孢 米诺)	Cefminox sodium impurities I	N/A	 <p>Chemical Formula: $C_{14}H_{18}N_3NaO_8S_2$ Exact Mass: 443.04 Molecular Weight: 443.43</p>
1-03-02	杂质 II (甲巯四 氮唑, 头孢米诺 钠杂质 MMT)	Cefminox sodium impurities II	13183-79-4	 <p>Chemical Formula: $C_2H_4N_4S$ Exact Mass: 116.02 Molecular Weight: 116.14</p>
1-05-03	杂质 III (头孢米 诺双键位 移)	Cefminox sodium impurities III	N/A	 <p>Chemical Formula: $C_{16}H_{20}N_7NaO_7S_3$ Exact Mass: 541.05 Molecular Weight: 541.56</p>



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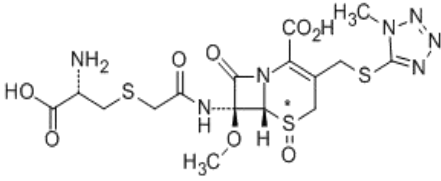
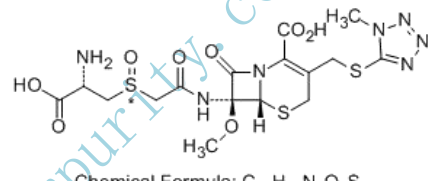
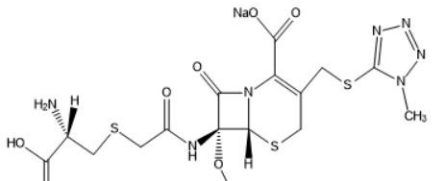
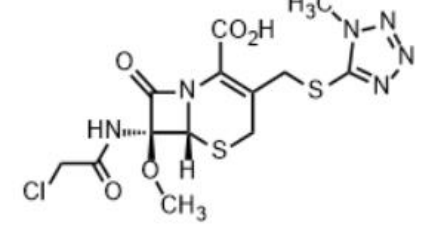
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1-05-04	杂质 IV	Cefminox sodium impurities IV	N/A	 <p>Chemical Formula: $C_{18}H_{20}N_3NaO_8S_2$ Exact Mass: 485.05 Molecular Weight: 485.46</p>
1-05-05	杂质 V	Cefminox sodium impurities V	N/A	 <p>Chemical Formula: $C_{14}H_{13}N_3NaO_7S_2$ Exact Mass: 427.05 Molecular Weight: 427.43</p>
1-05-06	杂质 D	Cefminox sodium impurities D	N/A	 <p>Chemical Formula: $C_{16}H_{21}N_7O_6S_4$ Exact Mass: 535.04 Molecular Weight: 535.64</p>
1-05-08	头孢米诺钠异构体 4 (L-MN)	Cefminox sodium isomer 4	N/A	 <p>Chemical Formula: $C_{18}H_{21}N_7O_7S_3$ Exact Mass: 519.06646 Molecular Weight: 519.56600</p>
1-05-09	头孢米诺钠杂质 M514	Cefminox sodium impurities M514	N/A	 <p>Chemical Formula: $C_{15}H_{13}N_{10}O_5S_3$ Exact Mass: 514.06 Molecular Weight: 514.56</p>



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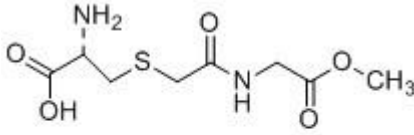
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1-05-10	头孢米诺 氧化杂质 1 (头孢米 诺亚砷 1, 头孢米诺 M535-1)	Cefminox sodium oxidation impurity 1	N/A	 <p>Chemical Formula: C₁₆H₂₁N₇O₈S₃ Exact Mass: 535.06137 Molecular Weight: 535.57504</p>
1-05-11	头孢米诺 钠氧化杂 质 2 (头孢米 诺亚砷 2, 头孢米诺 M535-2)	Cefminox sodium oxidation impurity 2	N/A	 <p>Chemical Formula: C₁₆H₂₁N₇O₈S₃ Exact Mass: 535.06137 Molecular Weight: 535.57504</p>
1-05-12	7β-甲氧基 头孢米诺 (头孢米 诺钠β异构 体)	Cefminox sodium beta isomer	N/A	 <p>Chemical Formula: C₁₄H₁₉N₇NaO₇S₃ Exact Mass: 541.05 Molecular Weight: 541.56</p>
1-05-13	头孢米诺 钠杂质 CMN (头 孢米诺杂 质 CMD)	Cefminox sodium impurity CMN	N/A	 <p>Chemical Formula: C₁₃H₁₅ClN₆O₅S₂ Exact Mass: 434.0234 Molecular Weight: 434.8784</p>



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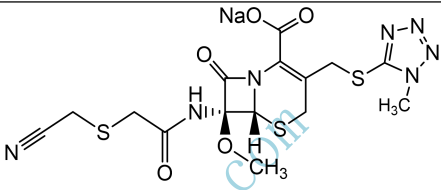
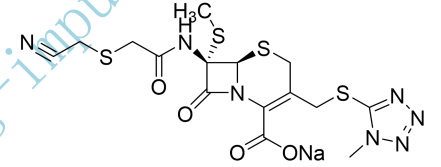
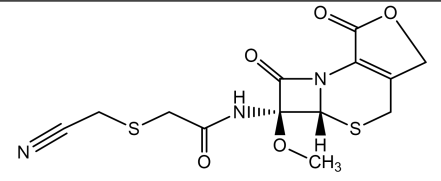
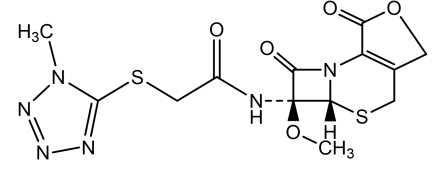
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1-05-14	头孢米诺 降解物 2	Cefminox Degradation Product 2	N/A	 Chemical Formula: C ₈ H ₁₄ N ₂ O ₅ S Exact Mass: 250.06234 Molecular Weight: 250.26900
1-05-15				

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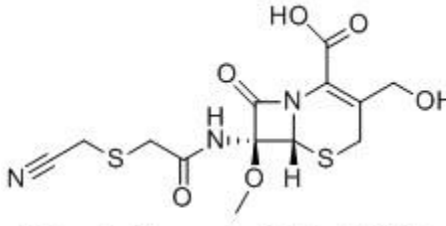
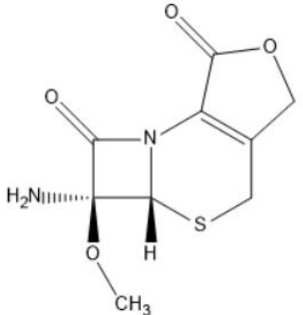
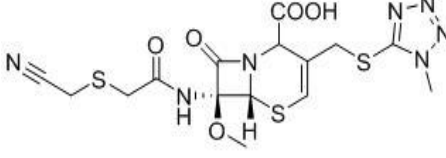
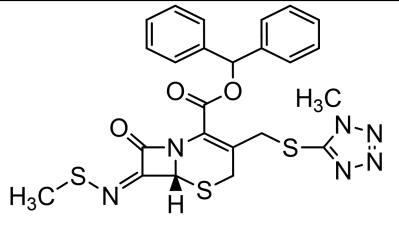
6. 头孢美唑钠杂质 Cefmetazole sodium impurities

序号	杂质名称	英文名称	CAS号	结构式
原料参比物质(非卖品)	头孢美唑钠	Cefmetazole sodium	56796-39-5 56796-20-4 (酸式)	 <p>Chemical Formula: $C_{15}H_{16}N_7NaO_5S_3$ Exact Mass: 493.03 Molecular Weight: 493.52</p>
1-06-01	7-甲巯基头孢美唑	S-Methyl Cefmetazole	N/A	 <p>Chemical Formula: $C_{15}H_{16}N_7NaO_4S_4$ Exact Mass: 509.00 Molecular Weight: 509.58</p>
1-06-02	头孢美唑内酯	Cefmetazole Related Compound inner ester	70993-70-3	 <p>Chemical Formula: $C_{13}H_{13}N_5O_5S_2$ Exact Mass: 355.03 Molecular Weight: 355.39</p>
1-6-3	头孢美唑内酯 II	Cefmetazole Related Compound inner ester II	N/A	 <p>Chemical Formula: $C_{13}H_{14}N_6O_5S_2$ Exact Mass: 398.05 Molecular Weight: 398.42</p>



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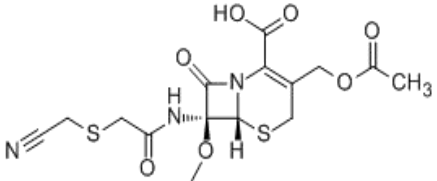
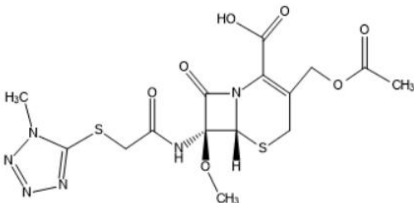
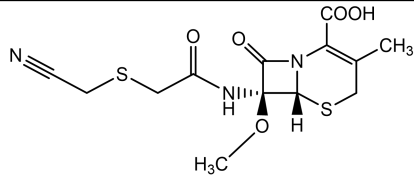
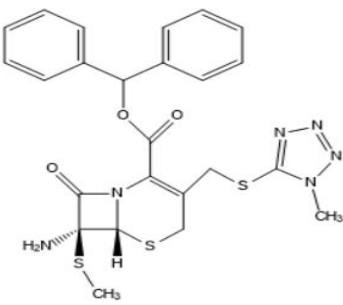
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1-06-04	3-OH 头孢美唑杂质 4	Cefmetazole Related Compound 4	N/A	 <p>Chemical Formula: $C_{13}H_{15}N_3O_6S_2$ Exact Mass: 373.04023 Molecular Weight: 373.39800</p>
1-06-05	头孢美唑内脂III	Cefmetazole Related Compound inner ester III	N/A	 <p>Chemical Formula: $C_{39}H_{42}N_{16}Na_2O_{13}S_8$ Exact Mass: 1244.07 Molecular Weight: 1245.35</p>
1-06-06	头孢美唑杂质 6 (头孢美唑双键位移)	Cefmetazole Related Compound 6	N/A	 <p>Chemical Formula: $C_{15}H_{17}N_7O_5S_3$ Exact Mass: 471.0453 Molecular Weight: 471.5250</p>
1-06-07	头孢美唑杂质 7	Cefmetazole Related Compound 7	N/A	 <p>Chemical Formula: $C_{24}H_{22}N_6O_3S_3$ Exact Mass: 538.09 Molecular Weight: 538.66</p>



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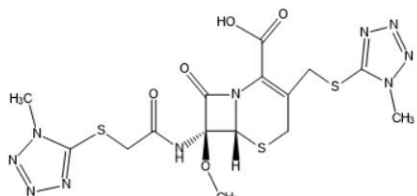

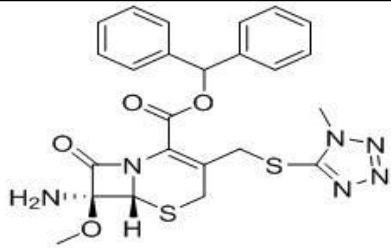
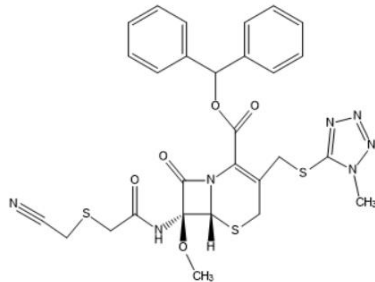
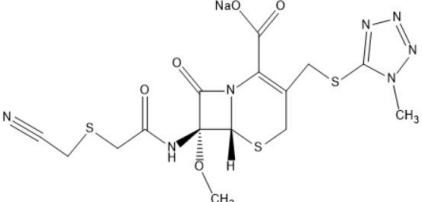
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1-06-08	头孢美唑 杂质 8	Cefmetazole Related Compound 8	56796-16-8	 <p>Chemical Formula: $C_{15}H_{17}N_3O_7S_2$ Exact Mass: 415.05079 Molecular Weight: 415.44138</p>
1-06-09	头孢美唑 杂质 9	Cefmetazole Related Compound 9	N/A	 <p>Chemical Formula: $C_{15}H_{15}N_5O_7S_2$ Exact Mass: 458.07 Molecular Weight: 458.47</p>
1-06-10	头孢美唑 杂质(MZ- D)	Cefmetazole impurity	N/A	 <p>Chemical Formula: $C_{13}H_{15}N_3O_5S_2$ Exact Mass: 357.05 Molecular Weight: 357.41</p>
1-06-11	头孢美唑 杂质 (Z2S)	Cefmetazole impurity	N/A	 <p>Chemical Formula: $C_{24}H_{24}N_6O_5S_3$ Exact Mass: 540.11 Molecular Weight: 540.68</p>



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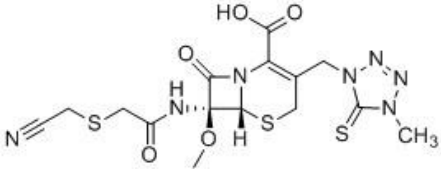
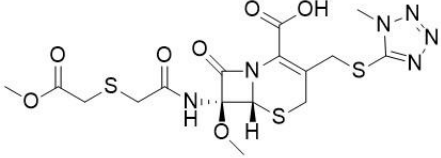
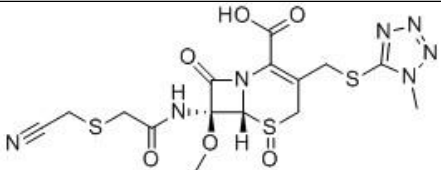
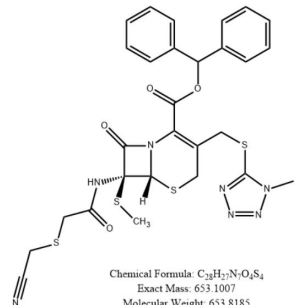
1-06-12	副产物 II	Side compound II	74228-11-8	 <p>Chemical Formula: $C_{15}H_{13}N_5O_5S_3$ Exact Mass: 514.06 Molecular Weight: 514.56</p>
1-06-14	头孢美唑杂质 (7-位侧链)	2-(Cyanomethylthio)acetic Acid	55817-29-3	 <p>Chemical Formula: $C_4H_5NO_2S$ Exact Mass: 131.00410 Molecular Weight: 131.15300</p>
1-6-15	头孢美唑杂质 7-MAC	7β-Amino-7α-methoxy-3-(1-methyl-5-tetrazolylthio)methyl-3-cephem-4-carboxylic Acid Diphenylmethyl Ester	56610-72-1	 <p>Chemical Formula: $C_{24}H_{24}N_5O_4S_2$ Exact Mass: 524.1300 Molecular Weight: 524.6140</p>
1-06-16	头孢美唑杂质 L	Cefmetazole impurity L	56796-19-1	 <p>Chemical Formula: $C_{25}H_{17}N_5O_5S_3$ Exact Mass: 637.12 Molecular Weight: 637.75</p>
1-06-17	7β-甲氧基头孢美唑 (6R,7R-MZ)	7β-methoxy-Cefmetazole	N/A	 <p>Chemical Formula: $C_{15}H_{16}N_5NaO_5S_3$ Exact Mass: 493.03 Molecular Weight: 493.52</p>

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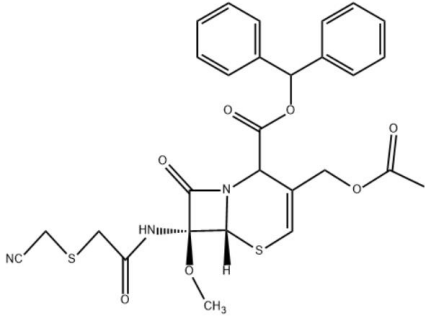


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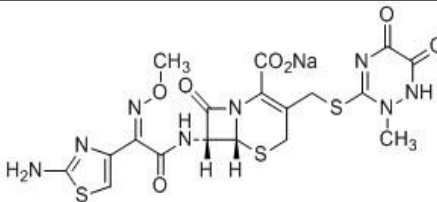
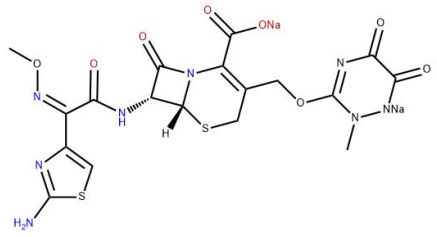
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1-06-18	头孢美唑 MMT 异 构体杂质	Cefmetazole MMT Isomer	N/A	 <p>Chemical Formula: C₁₅H₁₇N₇O₅S₃ Exact Mass: 471.04533 Molecular Weight: 471.52500</p>
1-06-19	头孢美唑 杂质 E	Cefmetazole Impurity E	N/A	 <p>Chemical Formula: C₁₆H₂₀N₆O₇S₃ Exact Mass: 504.05556 Molecular Weight: 504.55100</p>
1-06-20	头孢美唑 氧化杂质	Cefmetazole oxidation Impurity	N/A	 <p>Chemical Formula: C₁₅H₁₇N₇O₆S₃ Exact Mass: 487.04024 Molecular Weight: 487.52400</p>
1-06-21	甲巯基保 护头孢美 唑杂质 (简称: MZPS)	Cefmetazole Impurity MZPS	N/A	 <p>Chemical Formula: C₂₂H₂₇N₇O₄S₄ Exact Mass: 653.1007 Molecular Weight: 653.8185</p>



1-06-22	头孢美唑 杂质 MZP-DT	Cefmetazole Impurity MZP- DT	N/A	 <p>Chemical Formula: $C_{28}H_{27}N_3O_7S_2$ Exact Mass: 581.1290 Molecular Weight: 581.6599</p>
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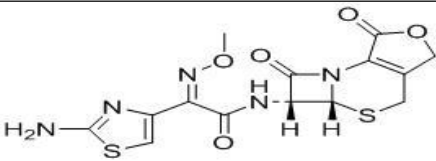
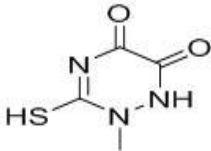
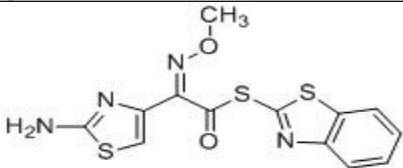
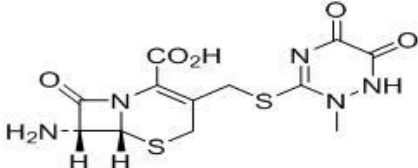
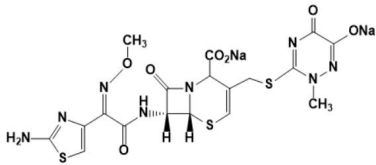
7. 头孢曲松钠杂质 Ceftriaxone sodium impurities

序号	杂质名称	英文名称	CAS 号	结构式
原料参比 物质(非 卖品)	头孢曲松 钠	Ceftriaxone sodium	104376-79-6	 <p>Chemical Formula: $C_{18}H_{17}N_8NaO_7S_3$ Exact Mass: 576.02800 Molecular Weight: 576.55277</p>
1-07-01	杂质 A	Ceftriaxone impurity A	92143-31-2	 <p>Chemical Formula: $C_{18}H_{16}N_8Na_2O_5S_2$ Exact Mass: 582.0328 Molecular Weight: 582.4735</p>



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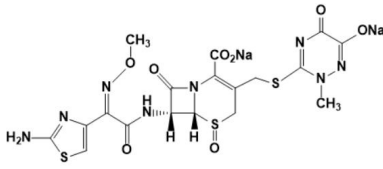
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1-07-02	杂质 B	Ceftriaxone impurity B	66340-33-8	 <p>Chemical Formula: $C_{14}H_{13}N_5O_5S_2$ Exact Mass: 395.0358 Molecular Weight: 395.4080</p>
1-07-03	杂质 C	Ceftriaxone impurity C	58909-39-0	 <p>Chemical Formula: $C_4H_5N_3O_2S$ Exact Mass: 159.0102 Molecular Weight: 159.1630</p>
1-07-04	杂质 D	Ceftriaxone impurity D	80756-85-0	 <p>Chemical Formula: $C_{13}H_{10}N_4O_2S_3$ Exact Mass: 349.99659 Molecular Weight: 350.42900</p>
1-07-05	杂质 E (7-ACT)	Ceftriaxone impurity E	58909-56-1	 <p>Chemical Formula: $C_{12}H_{13}N_5O_5S_2$ Exact Mass: 371.0358 Molecular Weight: 371.3860</p>
1-07-06	头孢曲松 双键位移 杂质	Ceftriaxone 3-ene Isomer Disodium Salt	N/A	 <p>Chemical Formula: $C_{16}H_{16}N_6Na_2O_7S_3$ Exact Mass: 598.0099 Molecular Weight: 598.5436</p>



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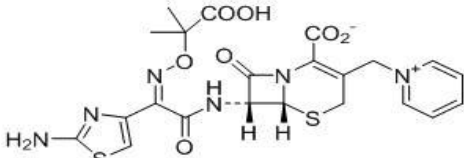
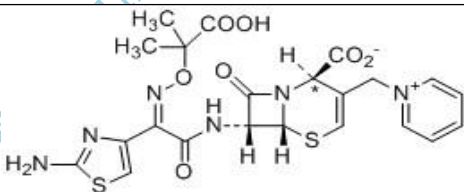
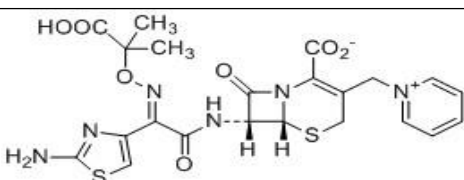
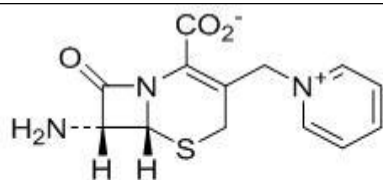
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1-07-07	曲松氧化 杂质 (头孢曲 松亚砷)	Ceftriaxone oxide impurity	N/A	 <p>Chemical Formula: $C_{15}H_{16}N_3Na_2O_6S_3$ Exact Mass: 614.0049 Molecular Weight: 614.5430</p>
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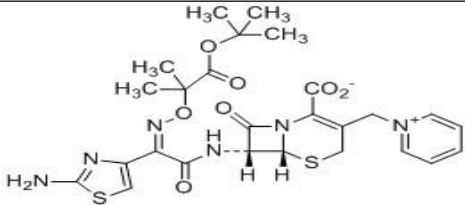
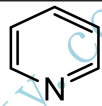
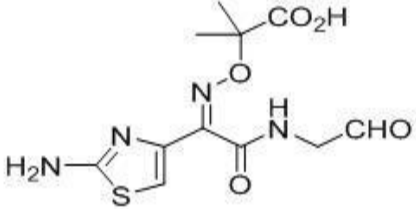
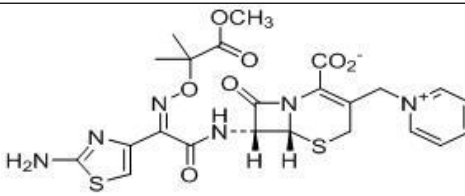
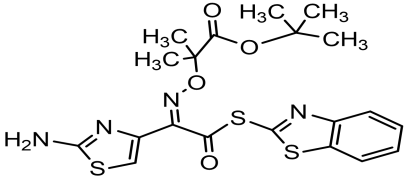
8. 头孢他啶杂质 Ceftazidime impurities

序号	杂质名称	英文名称	CAS 号	结构式
原料参比物质(非卖品)	头孢他啶	Ceftazidime	72558-82-8	 <p>Chemical Formula: C₂₂H₂₂N₆O₇S₂ Exact Mass: 546.0991 Molecular Weight: 546.5730</p>
1-08-01	杂质 A EP 杂质 A	Ceftazidime impurity A	1000980-60-8	 <p>Chemical Formula: C₂₂H₂₂N₆O₇S₂ Exact Mass: 546.09914 Molecular Weight: 546.57300</p>
1-08-02	杂质 B EP 杂质 B	Ceftazidime impurity B	97148-38-4	 <p>Chemical Formula: C₂₂H₂₂N₆O₇S₂ Exact Mass: 546.09914 Molecular Weight: 546.57300</p>
1-08-03	杂质 C EP 杂质 C	Ceftazidime impurity C	3432-88-0	 <p>Chemical Formula: C₁₃H₁₃N₃O₃S Exact Mass: 291.0678 Molecular Weight: 291.3250</p>



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1-08-04	杂质 E EP 杂质 E	Ceftazidime impurity E	102772-66-7	 <p>Chemical Formula: C₂₆H₃₀N₆O₇S₂ Exact Mass: 602.16 Molecular Weight: 602.68</p>
1-08-05	杂质 F EP 杂质 F	Ceftazidime impurity F	N/A	 <p>Chemical Formula: C₅H₅N Exact Mass: 79.04 Molecular Weight: 79.10</p>
1-08-06	杂质 G EP 杂质 G	Ceftazidime impurity G	194241-83-3	 <p>Chemical Formula: C₁₁H₁₄N₄O₅S Exact Mass: 314.0685 Molecular Weight: 314.3160</p>
1-08-07	杂质 H EP 杂质 H	Ceftazidime impurity H	1354396-23-8	 <p>Chemical Formula: C₂₃H₂₄N₆O₇S₂ Exact Mass: 560.1148 Molecular Weight: 560.6000</p>
1-08-08	杂质 I EP 杂质 I	Ceftazidime impurity I	N/A	 <p>Chemical Formula: C₂₀H₂₂N₄O₄S₃ Exact Mass: 478.08 Molecular Weight: 478.61</p>



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1-08-09	杂质 TDO (氧化杂质, 头孢他啶亚砷)	Ceftazidime oxidized impurity	N/A	<p>Chemical Formula: C₂₂H₂₂N₆O₈S₂ Exact Mass: 562.09 Molecular Weight: 562.58</p>
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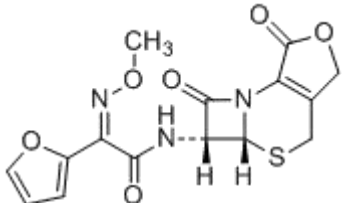
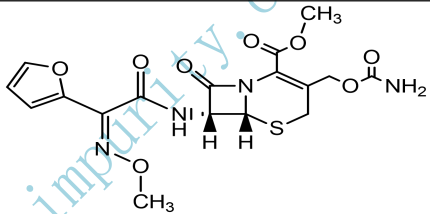
9. 头孢呋辛酯杂质 Cefuroxim axetil impurities

序号	杂质名称	英文名称	CAS号	结构式
原料参比物质(非卖品)	头孢呋辛酯	Cefuroxim axetil	64544-07-6	<p>Chemical Formula: $C_{20}H_{22}N_4O_{10}S$ Exact Mass: 510.1057 Molecular Weight: 510.4740</p>
1-9-1	杂质 A	Cefuroxim axetil impurity A	123458-61-7	<p>Chemical Formula: $C_{20}H_{22}N_4O_{10}S$ Exact Mass: 510.11 Molecular Weight: 510.47</p>
1-9-2	杂质 B (反式头孢呋辛酯)	Cefuroxim axetil impurity B	97232-96-7	<p>Chemical Formula: $C_{20}H_{22}N_4O_{10}S$ Exact Mass: 510.1057 Molecular Weight: 510.4740</p>
1-9-3	杂质 D (头孢呋辛酸)	Cefuroxim axetil impurity D	7783-63-3	<p>Chemical Formula: $C_{16}H_{16}N_4O_8S$ Exact Mass: 424.0689 Molecular Weight: 424.3840</p>



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1-09-04	杂质 E (头孢呋辛内酯)	Cefuroxim axetil impurity E	947723-87-7	 <p>Chemical Formula: C₁₅H₁₃N₃O₆S Exact Mass: 363.05 Molecular Weight: 363.34</p>
1-09-05	头孢呋辛 酸甲酯	Cefuroxim acid methyl ester	N/A	 <p>Chemical Formula: C₁₇H₁₈N₄O₈S Exact Mass: 438.08 Molecular Weight: 438.41</p>



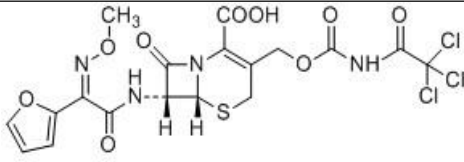
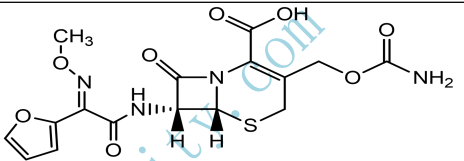
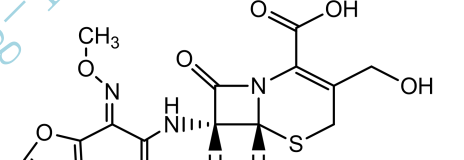
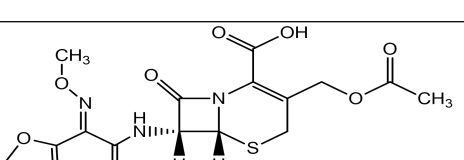
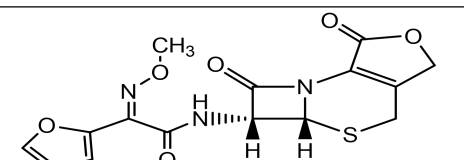
10. 头孢呋辛钠杂质 Cefuroxim Sodium impurities

序号	杂质名称	英文名称	CAS号	结构式
原料参比物质(非卖品)	头孢呋辛钠	Cefuroxim Sodium	56238-63-2	<p>Chemical Formula: $C_{16}H_{15}N_4NaO_8S$ Exact Mass: 446.05 Molecular Weight: 446.37</p>
1-10-01	杂质 A	Cefuroxim Sodium impurity A	56271-94-4	<p>Chemical Formula: $C_{15}H_{15}N_3O_7S$ Exact Mass: 381.06 Molecular Weight: 381.36</p>
1-10-02	杂质 B	Cefuroxim Sodium impurity B	39685-31-9	<p>Chemical Formula: $C_{17}H_{17}N_3O_8S$ Exact Mass: 423.07 Molecular Weight: 423.40</p>
1-10-03	杂质 C	Cefuroxim Sodium impurity C	69822-88-4	<p>Chemical Formula: $C_{15}H_{15}N_3O_6S$ Exact Mass: 365.07 Molecular Weight: 365.36</p>



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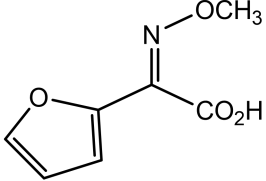
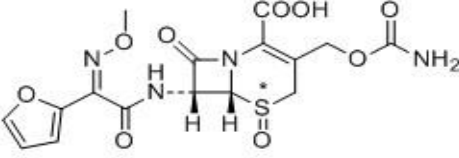
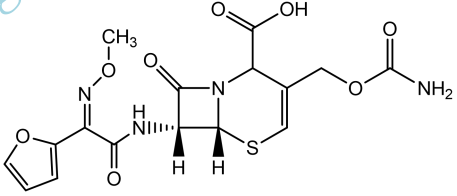
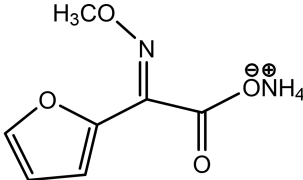
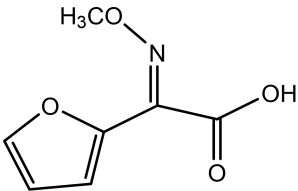
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1-10-04	杂质 D	Cefuroxim Sodium impurity D	76598-06-6	 <p>Chemical Formula: $C_{18}H_{15}Cl_3N_4O_9S$ Exact Mass: 567.96253 Molecular Weight: 569.74700</p>
1-10-05	杂质 E (反式头 孢呋辛 钠)	Cefuroxim sodium impurity E	97232-97-8	 <p>Chemical Formula: $C_{16}H_{16}N_4O_8S$ Exact Mass: 424.07 Molecular Weight: 424.39</p>
1-10-06	杂质 F	Cefuroxim Sodium impurity F	N/A	 <p>Chemical Formula: $C_{15}H_{15}N_3O_7S$ Exact Mass: 381.06 Molecular Weight: 381.36</p>
1-10-07	杂质 G	Cefuroxim Sodium impurity G	39685-31-9	 <p>Chemical Formula: $C_{17}H_{17}N_3O_8S$ Exact Mass: 423.07 Molecular Weight: 423.40</p>
1-10-08	杂质 H	Cefuroxim Sodium impurity H	947723-87-7	 <p>Chemical Formula: $C_{15}H_{13}N_3O_6S$ Exact Mass: 363.05 Molecular Weight: 363.35</p>



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1-10-09	杂质 I	Cefuroxim Sodium impurity I	39684-61-2	 <p>Chemical Formula: $C_7H_7NO_4$ Exact Mass: 169.04 Molecular Weight: 169.13</p>
1-10-10	头孢呋辛氧化杂质	Cefuroxim oxidizes impurities	929531-94-2	 <p>Chemical Formula: $C_{16}H_{16}N_4O_9S$ Exact Mass: 440.06380 Molecular Weight: 440.38300</p>
1-10-11	头孢呋辛双键位移杂质	Cefuroxim double bond displacement impurity	229499-08-5	 <p>Chemical Formula: $C_{16}H_{16}N_4O_8S$ Exact Mass: 424.07 Molecular Weight: 424.39</p>
1-10-12	反式呋喃铵盐	Trans-furan ammonium salt	N/A	 <p>Chemical Formula: $C_7H_{10}N_2O_4$ Exact Mass: 186.06 Molecular Weight: 186.17</p>
1-10-13	反式呋喃酸	Trans-furan acid	39684-61-2	 <p>Chemical Formula: $C_7H_7NO_4$ Exact Mass: 169.04 Molecular Weight: 169.13</p>



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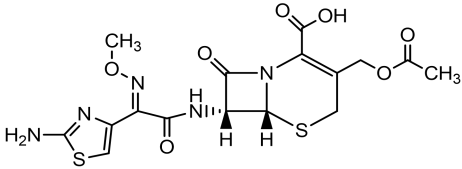
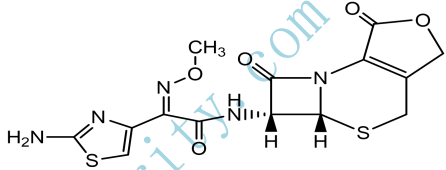
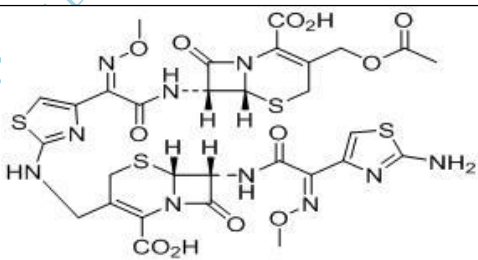
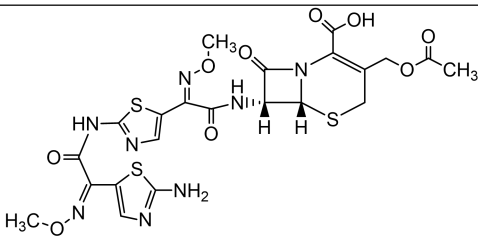
11. 头孢噻肟钠杂质 Cefotaxime Sodium impurities

序号	杂质名称	英文名称	CAS 号	结构式
原料参 比物质 (非卖品)	头孢噻肟 钠	CefotaximeS odium	64485-93-4	<p>Chemical Formula: $C_{16}H_{16}N_5NaO_7S_2$ Exact Mass: 477.04 Molecular Weight: 477.45</p>
1-11-01	杂质 A	Cefotaxime impurity A	65052-63-3	<p>Chemical Formula: $C_{14}H_{15}N_5O_5S_2$ Exact Mass: 397.05 Molecular Weight: 397.43</p>
1-11-02	杂质 B	Cefotaxime impurity B	66340-28-1	<p>Chemical Formula: $C_{14}H_{15}N_5O_6S_2$ Exact Mass: 413.0464 Molecular Weight: 413.4288</p>
1-11-03	杂质 C (甲酰基 头孢噻 肟)	Cefotaxime impurity C	N/A	<p>Chemical Formula: $C_{17}H_{17}N_5O_8S_2$ Exact Mass: 483.05 Molecular Weight: 483.48</p>



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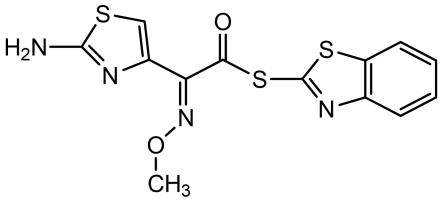
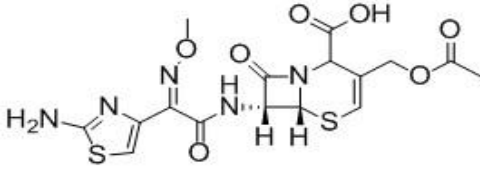
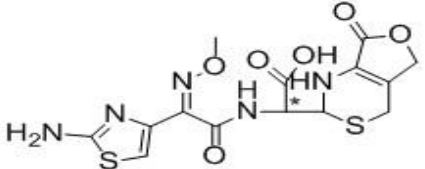
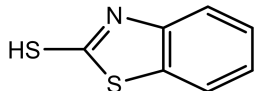
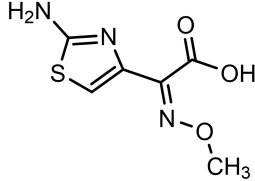
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1-11-04	杂质 D	Cefotaxime impurity D	65715-12-0	 <p>Chemical Formula: $C_{16}H_{17}N_5O_7S_2$ Exact Mass: 455.06 Molecular Weight: 455.47</p>
1-07-02	杂质 E (头孢噻肟内酯)	Cefotaxime impurity E	66340-33-8	 <p>Chemical Formula: $C_{14}H_{13}N_5O_5S_2$ Exact Mass: 395.04 Molecular Weight: 395.41</p>
1-11-06	杂质 F	Cefotaxime impurity F	N/A	 <p>Chemical Formula: $C_{30}H_{30}N_{10}O_{12}S_4$ Exact Mass: 850.0927 Molecular Weight: 850.8680</p>
1-11-07	杂质 G	Cefotaxime impurity G	N/A	 <p>Chemical Formula: $C_{22}H_{22}N_8O_9S_3$ Exact Mass: 638.07 Molecular Weight: 638.65</p>



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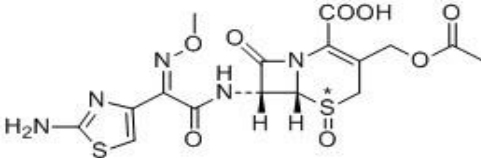
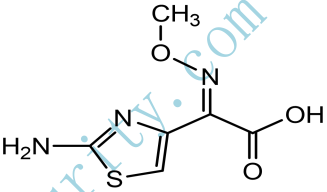
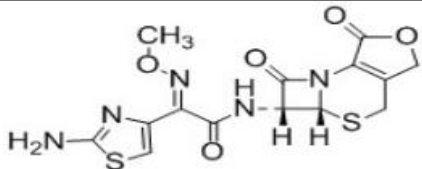
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1-11-08	反式 AE 活性酯	Trans AE active ester	N/A	 <p>Chemical Formula: C₁₃H₁₀N₄O₂S₃ Exact Mass: 350.00 Molecular Weight: 350.44</p>
1-11-09	双键位移	Cefotaxime sodium double bond displacement impurity	N/A	 <p>Chemical Formula: C₁₆H₁₇N₅O₇S₂ Exact Mass: 455.05694 Molecular Weight: 455.46000</p>
1-11-10	杂质 L	Cefotaxime impurity L	N/A	 <p>Chemical Formula: C₁₄H₁₅N₅O₆S₂ Exact Mass: 413.04637 Molecular Weight: 413.42300</p>
1-11-11	2-巯基苯并噻唑 (单 M)	2-Mercaptobenzothiazole	149-30-4	 <p>Chemical Formula: C₇H₅NS₂ Exact Mass: 166.99 Molecular Weight: 167.25</p>
1-11-12	氨基膦酸	Aminothianic acid	65872-41-5	 <p>Chemical Formula: C₆H₇N₃O₃S Exact Mass: 201.02 Molecular Weight: 201.20</p>



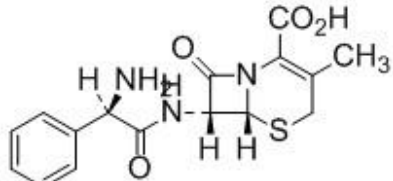
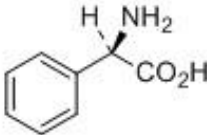
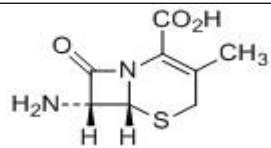
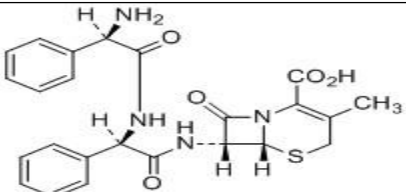
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1-11-13	头孢噻肟 氧化杂质 (头孢噻肟亚砷)	Cefotaxime oxidizes impurities	N/A	 <p>Chemical Formula: C₁₆H₁₇N₅O₈S₂ Exact Mass: 471.05185 Molecular Weight: 471.45900</p>
1-11-14	反式氨噻 肟酸	Trans- aminothiazo ic acid	N/A	 <p>Chemical Formula: C₆H₇N₃O₃S Exact Mass: 201.02 Molecular Weight: 201.20</p>
1-11-15	反式头孢 噻肟内酯	E- Cefotaxime Impurity E		 <p>Chemical Formula: C₁₄H₁₃N₅O₅S₂ Exact Mass: 395.03581 Molecular Weight: 395.40800</p>



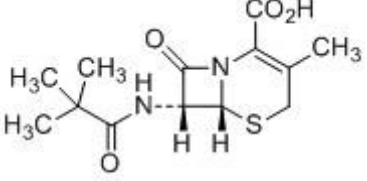
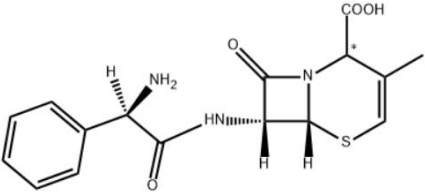
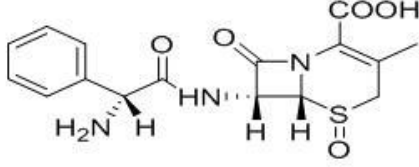
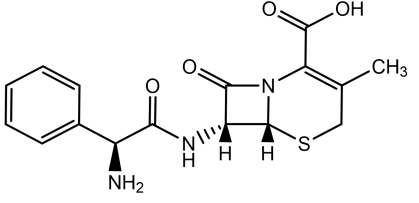
12. 头孢氨苄杂质 Cefalexin impurities

序号	杂质名称	英文名称	CAS 号	结构式
原料参比物质(非卖品)	头孢氨苄	Cefalexin	15686-71-2 (一水合物) 23325-78-2	 <p>Chemical Formula: C₁₆H₁₇N₃O₄S Exact Mass: 347.09398 Molecular Weight: 347.38900</p>
1-12-01	杂质 A	Cefalexin impurity A	875-74-1	 <p>Chemical Formula: C₈H₉NO₂ Exact Mass: 151.06333 Molecular Weight: 151.16500</p>
1-12-02	杂质 B	Cefalexin impurity B	(22252-43-3, 26395-99-3)	 <p>Chemical Formula: C₈H₁₀N₂O₃S Exact Mass: 214.04121 Molecular Weight: 214.23900</p>
1-12-03	杂质 C	Cefalexin impurity C	72528-40-6	 <p>Chemical Formula: C₂₄H₂₄N₄O₅S Exact Mass: 480.14674 Molecular Weight: 480.53900</p>



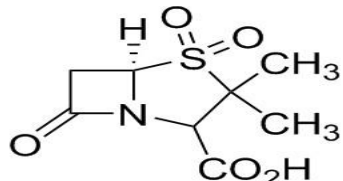
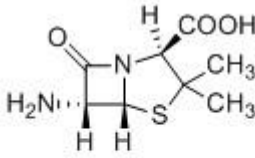
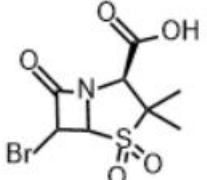
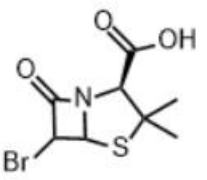
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1-12-04	杂质 E (简称 AN-E, QAB-H)	Cefalexin impurity E	146794-70-9	 <p>Chemical Formula: $C_{13}H_{18}N_2O_4S$ Exact Mass: 298.09873 Molecular Weight: 298.35700</p>
1-12-05	杂质 F (头孢氨苄双键位移, 简称 AB-DT)	Cefalexin impurity F	79750-46-2	 <p>Chemical Formula: $C_{16}H_{17}N_3O_4S$ Exact Mass: 347.0940 Molecular Weight: 347.3889</p>
1-12-06	杂质 J (头孢氨苄亚砷, 头孢氨苄氧化杂质)	Cefalexin impurity J	56193-21-6	 <p>Chemical Formula: $C_{16}H_{17}N_3O_5S$ Exact Mass: 363.0889 Molecular Weight: 363.3880</p>
1-12-07	L-头孢氨苄	Cefalexin impurity L	34632-04-7	 <p>Chemical Formula: $C_{16}H_{17}N_3O_4S$ Exact Mass: 347.09 Molecular Weight: 347.39</p>



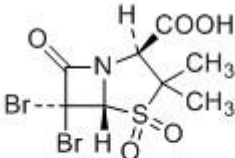
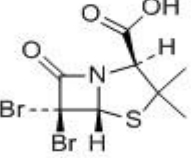
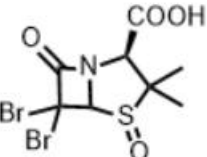
13.舒巴坦杂质 Sulbactam impurities

序号	杂质名称	英文名称	CAS 号	结构式
原料参比物质(非卖品)	舒巴坦	Sulbactam	68373-14-8	 <p>Chemical Formula: C₈H₁₁NO₅S Exact Mass: 233.03579 Molecular Weight: 233.23800</p>
1-13-01	杂质 B 6-APA	Sulbactam impurity B	551-16-6	 <p>Chemical Formula: C₈H₁₂N₂O₃S Exact Mass: 216.05686 Molecular Weight: 216.25500</p>
1-13-02	杂质 C	Sulbactam impurity C	N/A	 <p>Chemical Formula: C₈H₁₀BrNO₅S Exact Mass: 310.9463 Molecular Weight: 312.1377</p>
1-13-03	杂质 D	Sulbactam impurity D	N/A	 <p>Chemical Formula: C₈H₁₀BrNO₃S Exact Mass: 278.9565 Molecular Weight: 280.1389</p>



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1-13-04	杂质 E	Sulbactam impurity E	76646-91-8	 <p>Chemical Formula: $C_8H_9Br_2NO_5S$ Exact Mass: 388.85682 Molecular Weight: 391.03000</p>
1-13-05	杂质 F	Sulbactam impurity F	24158-88-1	 <p>Chemical Formula: $C_8H_9Br_2NO_3S$ Exact Mass: 356.86699 Molecular Weight: 359.03200</p>
1-13-06	舒巴坦亚砷杂质 (SBT-EYF)	Sulbactam impurity sulfoxide (SBT-EYF)	N/A	 <p>Chemical Formula: $C_8H_9Br_2NO_4S$ Exact Mass: 372.8619 Molecular Weight: 375.0344</p>



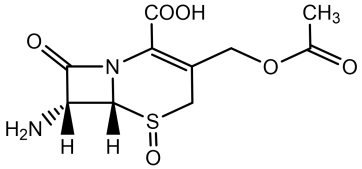
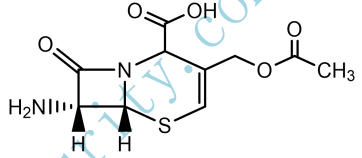
14.7-ACA 杂质 7-ACA impurities

序号	杂质名称	英文名称	CAS 号	结构式
原料参比物质(非卖品)	7-ACA	7-ACA	957-68-6	<p>Chemical Formula: $C_{10}H_{12}N_2O_5S$ Exact Mass: 272.05 Molecular Weight: 272.28</p>
1-14-1	D-7ACA	D-7-ACA	15690-38-7	<p>Chemical Formula: $C_8H_{10}N_2O_4S$ Exact Mass: 230.04 Molecular Weight: 230.24</p>
1-14-2	7-ADCA	7-ADCA	22252-43-3 26395-99-3 (广州)	<p>Chemical Formula: $C_8H_{10}N_2O_3S$ Exact Mass: 214.04 Molecular Weight: 214.24</p>
1-14-3	7-ACA 内酯	7-ACA lactone	184696-69-3	<p>Chemical Formula: $C_8H_8N_2O_3S$ Exact Mass: 212.03 Molecular Weight: 212.23</p>



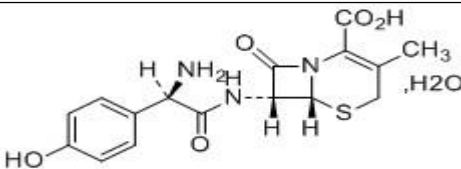
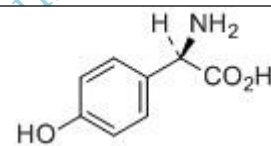
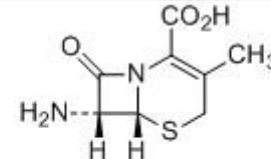
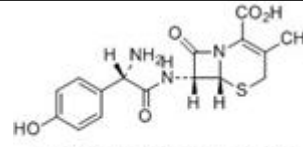
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1-14-4	7-ACA 亚砷 (7-ACA 氧化杂质)	7-ACA Sulfoxide	N/A	 <p>Chemical Formula: C₁₀H₁₂N₂O₆S Exact Mass: 288.04 Molecular Weight: 288.28</p>
1-14-5	7-ACA 双键位移杂质	7-ACA double bond displacement impurity	18884-65-6	 <p>Chemical Formula: C₁₀H₁₂N₂O₅S Exact Mass: 272.05 Molecular Weight: 272.28</p>



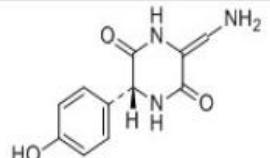
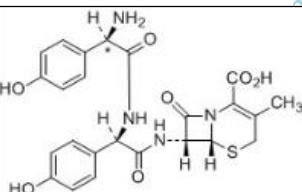
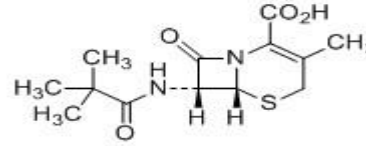
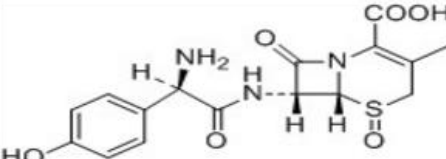
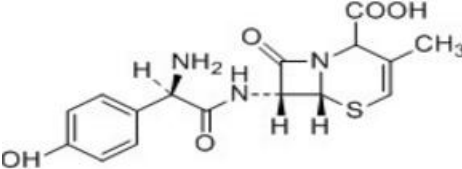
15. 头孢羟氨苄杂质 Cefadroxil impurities

序号	杂质名称	英文名称	CAS 号	结构式
原料参比物质(非卖品)	头孢羟氨苄	Cefadroxil	66592-87-8	 <p>Chemical Formula: C₁₆H₁₇N₃O₅S Exact Mass: 363.08889 Molecular Weight: 363.38800</p>
1-15-1	羟氨苄杂质 A	Cefadroxil impurity A	22818-40-2	 <p>Chemical Formula: C₈H₉NO₃ Exact Mass: 167.05824 Molecular Weight: 167.16400</p>
1-15-2	羟氨苄杂质 B	Cefadroxil impurity B	26395-99-3	 <p>Chemical Formula: C₈H₁₀N₂O₃S Exact Mass: 214.04121 Molecular Weight: 214.23900</p>
1-15-3	头孢羟氨苄杂质 D	Cefadroxil impurity D	144790-28-3	 <p>Chemical Formula: C₁₆H₁₇N₃O₅S Exact Mass: 363.08889 Molecular Weight: 363.38800</p>



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1-15-4	头孢羟氨苄杂质 E	Cefadroxil impurity E	/	 <p>and enantiomer</p> <p>Chemical Formula: C₁₁H₁₁N₃O₃ Exact Mass: 233.08004 Molecular Weight: 233.22700</p>
1-15-5	头孢羟氨苄杂质 F	Cefadroxil impurity F		 <p>and epimer at C*</p> <p>Chemical Formula: C₂₄H₂₄N₄O₇S Exact Mass: 512.13657 Molecular Weight: 512.53700</p>
1-15-6	杂质 H	Cefadroxil impurity H	146794-70-9	 <p>Chemical Formula: C₁₃H₁₈N₂O₄S Exact Mass: 298.09873 Molecular Weight: 298.35700</p>
1-15-7	头孢羟氨苄氧化杂质	Cefadroxil Oxide Impurity	N/A	 <p>Chemical Formula: C₁₆H₁₇N₃O₆S Exact Mass: 379.08381 Molecular Weight: 379.38700</p>
1-15-8	头孢羟氨苄双键位移	Δ ³ -Cefadroxil isomer	N/A	 <p>Chemical Formula: C₁₆H₁₇N₃O₅S Exact Mass: 363.08889 Molecular Weight: 363.38800</p>