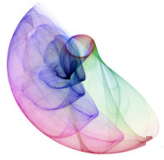


# 2012년 양계 질병 세균 항생제 내성 검사 결과

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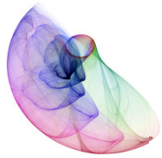


# Contents

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- I. 항생제 내성/감수성 기준 및 용어 설명
- II. 호흡기 질병 4종 항생제 내성 검사 결과
- III. 소화기 질병 3종 항생제 내성 검사 결과





# 항생제 감수성/내성 기준

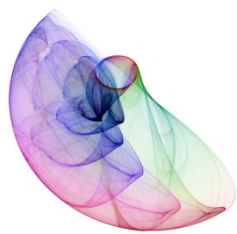
## • 항생제 종류 및 기준(디스크 확산법 기준으로 검역원 자료 참고)

| 약제명                                            | 감수성           | 효과 중간     | 내성        | 약제명                                              | 감수성       | 효과 중간     | 내성       |
|------------------------------------------------|---------------|-----------|-----------|--------------------------------------------------|-----------|-----------|----------|
| <b>Ampicillin(AMP10)</b>                       | <b>Gram -</b> | <b>16</b> | <b>13</b> | <b>Gentamicin(CN10)</b>                          | <b>17</b> | <b>13</b> | <b>6</b> |
|                                                | <b>Gram +</b> | <b>28</b> | <b>27</b> |                                                  |           |           |          |
| <b>Amoxicillin(AML30)</b>                      | <b>17</b>     | <b>13</b> | <b>6</b>  | <b>Linsmycin(LS109)</b>                          | <b>17</b> | <b>13</b> | <b>6</b> |
| <b>Amoxicillin/<br/>Clavulanic acid(AMC30)</b> | <b>17</b>     | <b>13</b> | <b>6</b>  | <b>Neomycin(N30)</b>                             | <b>17</b> | <b>13</b> | <b>6</b> |
| <b>Cefazolin(KZ30)</b>                         | <b>17</b>     | <b>14</b> | <b>6</b>  | <b>Penicillin G(P10)</b>                         | <b>15</b> | <b>13</b> | <b>6</b> |
| <b>Tilmicosin(TIL15)</b>                       | <b>17</b>     | <b>14</b> | <b>6</b>  | <b>Tiamulin H.Fumarate(Ti25)</b>                 | <b>17</b> | <b>13</b> | <b>6</b> |
| <b>Colistin(CT10)</b>                          | <b>11</b>     | <b>9</b>  | <b>6</b>  | <b>Streptomycin(S10)</b>                         | <b>15</b> | <b>11</b> | <b>6</b> |
| <b>Enrofloxacin(ENR5)</b>                      | <b>18</b>     | <b>13</b> | <b>6</b>  | <b>Tetracycline(T30)</b>                         | <b>23</b> | <b>18</b> | <b>6</b> |
| <b>Florfenicol(FFC25)</b>                      | <b>18</b>     | <b>13</b> | <b>6</b>  | <b>Trimethoprim/<br/>Sulfamethoxazole(STX25)</b> | <b>18</b> | <b>15</b> | <b>6</b> |
| <b>Ceftiofur sodium(C2.5)</b>                  | <b>17</b>     | <b>12</b> | <b>6</b>  | <b>Tylosin tartrate(Ty25)</b>                    | <b>18</b> | <b>13</b> | <b>6</b> |

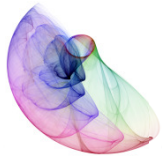
## • 항생제 종류 및 기준

|                            |                               |
|----------------------------|-------------------------------|
| <b>Sensitive(감수성)</b>      | 감수성이 있다는 의미로 치료 효과를 기대할 수 있음. |
| <b>Resistant(내성)</b>       | 내성이 있다는 의미로 치료효과 없음.          |
| <b>Intermediate(효과 중간)</b> | 감수성과 내성의 중간 정도.               |





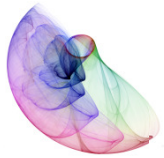
## 양계 세균성 질병 3종



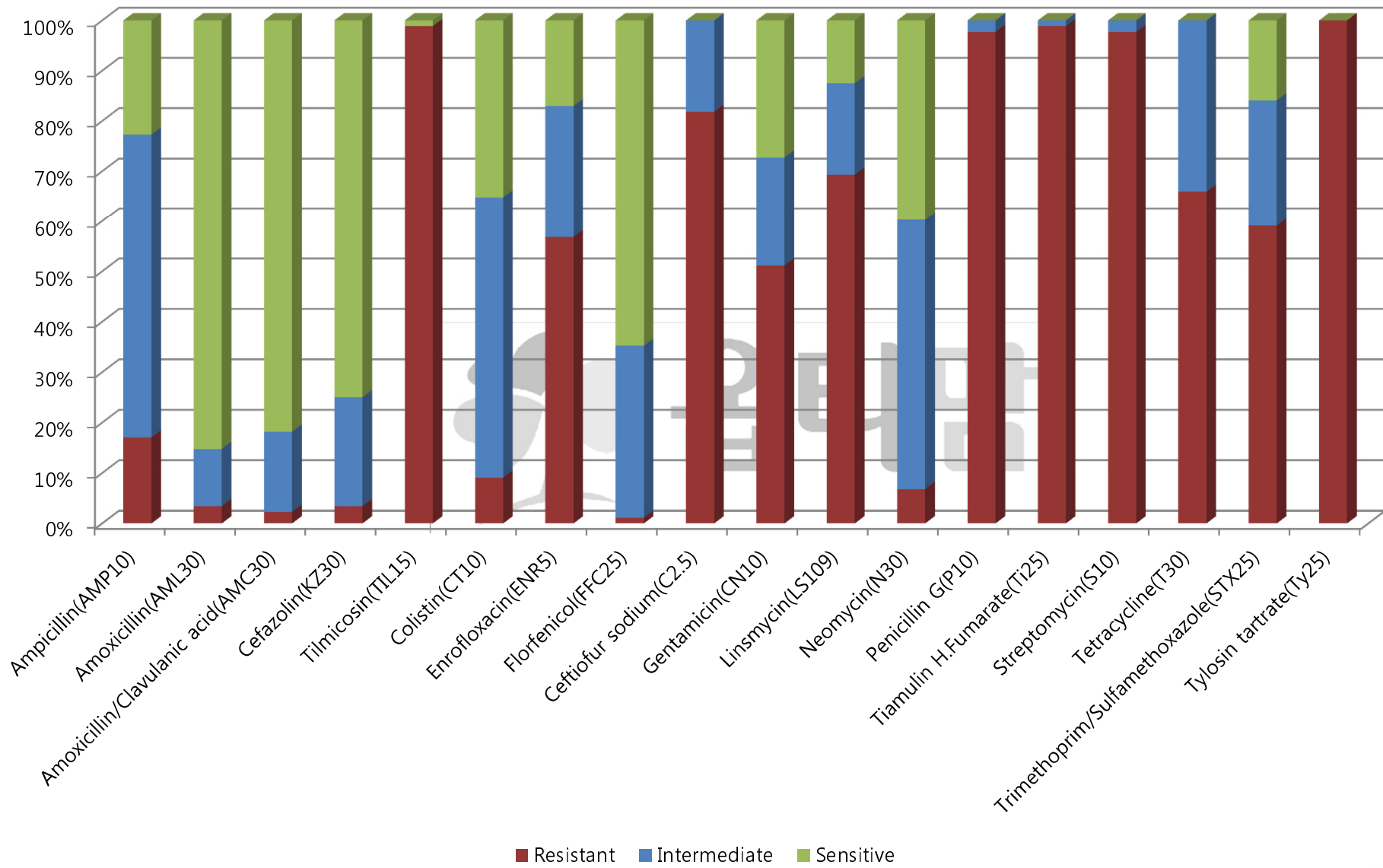
# Salmonella spp.

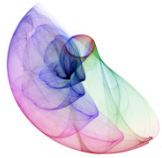
| 약 제 명                                    | 농장수 | Test | 항생제 내성 검사 결과 |        |              |       |           |       |
|------------------------------------------|-----|------|--------------|--------|--------------|-------|-----------|-------|
|                                          |     |      | Resistant    |        | Intermediate |       | Sensitive |       |
|                                          |     |      | Test         | %      | Test         | %     | Test      | %     |
| Ampicillin(AMP10)                        | 31  | 88   | 15           | 17.0%  | 53           | 60.2% | 20        | 22.7% |
| Amoxicillin(AML30)                       |     |      | 3            | 3.4%   | 10           | 11.4% | 75        | 85.2% |
| Amoxicillin/ Clavulanic acid(AMC30)      |     |      | 2            | 2.3%   | 14           | 15.9% | 72        | 81.8% |
| Cefazolin(KZ30)                          |     |      | 3            | 3.4%   | 19           | 21.6% | 66        | 75.0% |
| Tilmicosin(TIL15)                        |     |      | 87           | 98.9%  | 0            | 0.0%  | 1         | 1.1%  |
| Colistin(CT10)                           |     |      | 8            | 9.1%   | 49           | 55.7% | 31        | 35.2% |
| Enrofloxacin(ENR5)                       |     |      | 50           | 56.8%  | 23           | 26.1% | 15        | 17.0% |
| Florfenicol(FFC25)                       |     |      | 1            | 1.1%   | 30           | 34.1% | 57        | 64.8% |
| Ceftiofur sodium(C2.5)                   |     |      | 72           | 81.8%  | 16           | 18.2% | 0         | 0.0%  |
| Gentamicin(CN10)                         |     |      | 45           | 51.1%  | 19           | 21.6% | 24        | 27.3% |
| Linsmycin(LS109)                         |     |      | 61           | 69.3%  | 16           | 18.2% | 11        | 12.5% |
| Neomycin(N30)                            |     |      | 6            | 6.8%   | 47           | 53.4% | 35        | 39.8% |
| Penicillin G(P10)                        |     |      | 86           | 97.7%  | 2            | 2.3%  | 0         | 0.0%  |
| Tiamulin H.Fumarate(Ti25)                |     |      | 87           | 98.9%  | 1            | 1.1%  | 0         | 0.0%  |
| Streptomycin(S10)                        |     |      | 86           | 97.7%  | 2            | 2.3%  | 0         | 0.0%  |
| Tetracycline(T30)                        |     |      | 58           | 65.9%  | 30           | 34.1% | 0         | 0.0%  |
| Trimethoprim/<br>Sulfamethoxazole(STX25) |     |      | 52           | 59.1%  | 22           | 25.0% | 14        | 15.9% |
| Tylosin tartrate(Ty25)                   |     |      | 88           | 100.0% | 0            | 0.0%  | 0         | 0.0%  |





# *Salmonella* spp.

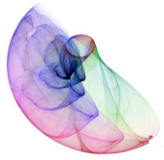




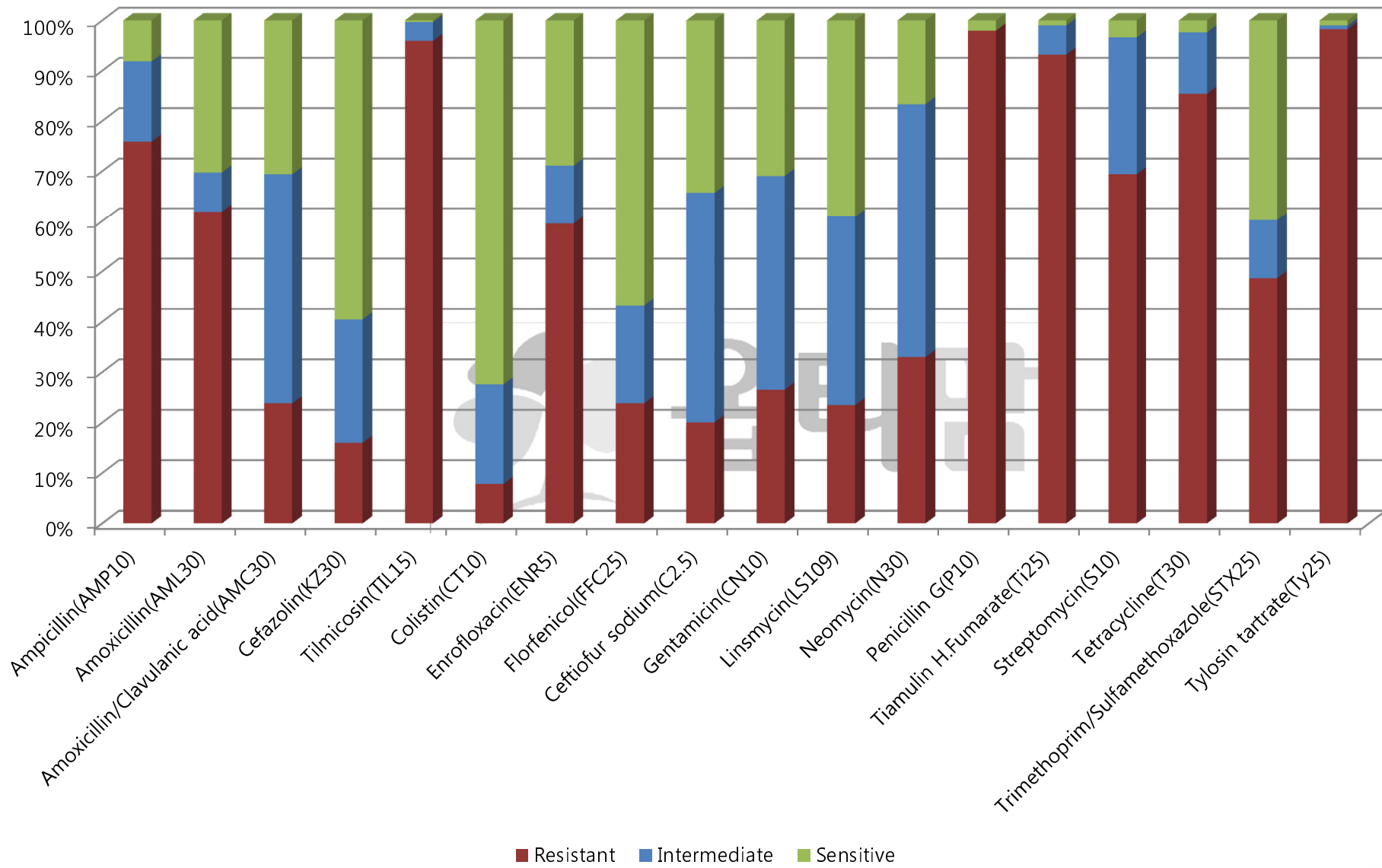
# Escherichia coli

| 약 제 명                                    | 농장수 | Test | 항생제 내성 검사 결과 |       |              |       |           |       |
|------------------------------------------|-----|------|--------------|-------|--------------|-------|-----------|-------|
|                                          |     |      | Resistant    |       | Intermediate |       | Sensitive |       |
|                                          |     |      | Test         | %     | Test         | %     | Test      | %     |
| Ampicillin(AMP10)                        | 103 | 294  | 223          | 75.9% | 47           | 16.0% | 24        | 8.2%  |
| Amoxicillin(AML30)                       |     |      | 182          | 61.9% | 23           | 7.8%  | 89        | 30.3% |
| Amoxicillin/ Clavulanic acid(AMC30)      |     |      | 70           | 23.8% | 134          | 45.6% | 90        | 30.6% |
| Cefazolin(KZ30)                          |     |      | 47           | 16.0% | 72           | 24.5% | 175       | 59.5% |
| Tilmicosin(TIL15)                        |     |      | 282          | 95.9% | 11           | 3.7%  | 1         | 0.3%  |
| Colistin(CT10)                           |     |      | 23           | 7.8%  | 58           | 19.7% | 213       | 72.4% |
| Enrofloxacin(ENR5)                       |     |      | 175          | 59.5% | 34           | 11.6% | 85        | 28.9% |
| Florfenicol(FFC25)                       |     |      | 70           | 23.8% | 57           | 19.4% | 167       | 56.8% |
| Ceftiofur sodium(C2.5)                   |     |      | 59           | 20.1% | 134          | 45.6% | 101       | 34.4% |
| Gentamicin(CN10)                         |     |      | 78           | 26.5% | 125          | 42.5% | 91        | 31.0% |
| Linsmycin(LS109)                         |     |      | 69           | 23.5% | 110          | 37.4% | 115       | 39.1% |
| Neomycin(N30)                            |     |      | 97           | 33.0% | 148          | 50.3% | 49        | 16.7% |
| Penicillin G(P10)                        |     |      | 288          | 98.0% | 0            | 0.0%  | 6         | 2.0%  |
| Tiamulin H.Fumarate(Ti25)                |     |      | 274          | 93.2% | 17           | 5.8%  | 3         | 1.0%  |
| Streptomycin(S10)                        |     |      | 204          | 69.4% | 80           | 27.2% | 10        | 3.4%  |
| Tetracycline(T30)                        |     |      | 251          | 85.4% | 36           | 12.2% | 7         | 2.4%  |
| Trimethoprim/<br>Sulfamethoxazole(STX25) |     |      | 143          | 48.6% | 34           | 11.6% | 117       | 39.8% |
| Tylosin tartrate(Ty25)                   |     |      | 284          | 98.3% | 2            | 0.7%  | 3         | 1.0%  |

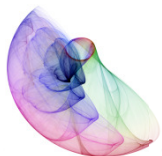




# Escherichia coli



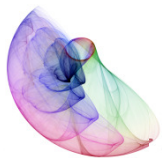




# Clostridium perfringens

| 약 제 명                                    | 농장수 | Test | 항생제 내성 검사 결과 |        |              |       |           |        |
|------------------------------------------|-----|------|--------------|--------|--------------|-------|-----------|--------|
|                                          |     |      | Resistant    |        | Intermediate |       | Sensitive |        |
|                                          |     |      | Test         | %      | Test         | %     | Test      | %      |
| Ampicillin(AMP10)                        | 16  | 40   | 38           | 95.0%  | 1            | 2.5%  | 1         | 2.5%   |
| Amoxicillin(AML30)                       |     |      | 0            | 0.0%   | 1            | 2.5%  | 39        | 97.5%  |
| Amoxicillin/ Clavulanic acid(AMC30)      |     |      | 0            | 0.0%   | 1            | 2.5%  | 39        | 97.5%  |
| Cefazolin(KZ30)                          |     |      | 0            | 0.0%   | 4            | 10.0% | 36        | 90.0%  |
| Tilmicosin(TIL15)                        |     |      | 12           | 30.0%  | 24           | 60.0% | 4         | 10.0%  |
| Colistin(CT10)                           |     |      | 40           | 100.0% | 0            | 0.0%  | 0         | 0.0%   |
| Enrofloxacin(ENR5)                       |     |      | 7            | 17.5%  | 12           | 30.0% | 21        | 52.5%  |
| Florfenicol(FFC25)                       |     |      | 3            | 7.5%   | 5            | 12.5% | 32        | 80.0%  |
| Ceftiofur sodium(C2.5)                   |     |      | 11           | 27.5%  | 18           | 45.0% | 11        | 27.5%  |
| Gentamicin(CN10)                         |     |      | 39           | 97.5%  | 0            | 0.0%  | 1         | 2.5%   |
| Linsmycin(LS109)                         |     |      | 17           | 42.5%  | 15           | 37.5% | 8         | 20.0%  |
| Neomycin(N30)                            |     |      | 39           | 97.5%  | 0            | 0.0%  | 1         | 2.5%   |
| Penicillin G(P10)                        |     |      | 0            | 0.0%   | 0            | 0.0%  | 40        | 100.0% |
| Tiamulin H.Fumarate(Ti25)                |     |      | 25           | 62.5%  | 7            | 17.5% | 8         | 20.0%  |
| Streptomycin(S10)                        |     |      | 40           | 100.0% | 0            | 0.0%  | 0         | 0.0%   |
| Tetracycline(T30)                        |     |      | 40           | 100.0% | 0            | 0.0%  | 0         | 0.0%   |
| Trimethoprim/<br>Sulfamethoxazole(STX25) |     |      | 39           | 97.5%  | 0            | 0.0%  | 1         | 2.5%   |
| Tylosin tartrate(Ty25)                   |     |      | 5            | 12.5%  | 18           | 45.0% | 17        | 42.5%  |





# Clostridium perfringens

