



# Technical Bulletin

DSM Food Specialties B.V.

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## Delvotest<sup>®</sup> SP NT

www.dsm.com

### Sensitivity of the Delvotest SP NT

The table presented in this document is a list of sensitivity of the Delvotest SP NT for the most used antibiotics in the world. This list is not exhaustive. The test is sensitive to many more antibiotic drugs and sulfonamides.

The sensitivity corresponds to the concentration for which 95% of the samples analyzed are positive.

The best test sensitivity is reached when using the control time (CT). To measure at control time, use one test with negative control milk and stop the incubation of the test when the test with the control milk as turned yellow. Read then the result of the unknown samples.

For convenience, a fix incubation time of 3 hours can be used.

There are no significant differences between plates and ampoules.

| Delvotest SP-NT      |        | plates |       | ampoules |       |
|----------------------|--------|--------|-------|----------|-------|
| Antibiotics          | MRL EU | CT     | 3h    | CT       | 3h    |
| <b>B-lactam</b>      |        |        |       |          |       |
| <i>Penicillin</i>    |        |        |       |          |       |
| amoxicillin          | 4      | 3      | 3     | 2        | 3     |
| ampicillin           | 4      | 2      | 2     | 2        | 3     |
| cloxacillin          | 30     | 12     | 13    | 12       | 16    |
| dicloxacillin        | 30     | 6      | 7     | 6        | 8     |
| penicillin           | 4      | 2      | 2     | 2        | 2     |
| nafcillin            | 30     | 3      | 4     | 4        | 5     |
| <i>Cephalosporin</i> |        |        |       |          |       |
| cefalonium           | 20     | 5      | 8     | 6        | 8     |
| cefoperazone         | 50     | 30     | 40    | 30       | 45    |
| cefquinome           | 20     | 75     | >100  | 65       | >100  |
| cephalexin           | 100    | 45     | 60    | 45       | 70    |
| <b>Aminosides</b>    |        |        |       |          |       |
| dihydrostrepto.      | 200    | 700    | 1200  | 700      | 1200  |
| neomycine            | 1500   | 190    | 390   | 115      | 340   |
| streptomycin         | 200    | 1100   | 1800  | 950      | 1800  |
| <b>Macrolides</b>    |        |        |       |          |       |
| erythromycin         | 40     | 90     | 180   | 90       | 180   |
| lincomycin           | 150    | 160    | 300   | 170      | 300   |
| novobiocin           | 50     | 800    | >1500 | 750      | >1500 |
| rifaximin            | 60     | 60     | >100  | 50       | >100  |
| spiramycin           | 200    | 400    | 700   | 280      | 540   |
| tylosin              | 50     | 40     | 50    | 35       | 50    |
| <b>Tetracycline</b>  |        |        |       |          |       |
| tetracycline         | 100    | 270    | 550   | 320      | 700   |
| oxytetracycline      | 100    | 250    | 570   | 300      | 680   |
| <b>Sulfonamides</b>  |        |        |       |          |       |
| Sulfadiazine         | 100    | 50     | 150   | 65       | 170   |
| sulfadoxine          | 100    | 160    | >300  | 130      | >300  |
| sulfathiazol         | 100    | 40     | 80    | 40       | 90    |
| <b>Others</b>        |        |        |       |          |       |
| bacitracin           | 100    | 580    | 820   | 580      | 750   |

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