

BetaStar Plus

For beta-lactam antibiotics



Intended Use

BetaStar Plus is used to detect beta-lactam antibiotic residues, including amoxicillin, ampicillin, cephalosporin, cloxacillin, penicillin and ceftiofur in raw, commingled cow milk.

Product Specifications

Testing time: 5 minutes
Tests per kit: 25 or 250
Approvals: AOAC-RI, FDA/NCIMS

Results



Dose Response Information

BetaStar Plus Performance Information

| ppb | Amoxicillin | Ampicillin* | Ceftiofur ¹ | Cephapirin | Cloxacillin | Penicillin |
|--------------------------------|-------------|-------------|------------------------|------------|-------------|------------|
| 1 | | | | | | 0% |
| 2 | 0% | 0% | | | 0% | 0% |
| 3 | | | | | | 0% |
| 4 | 0% | 0% | | 0% | 0% | 0% |
| 5 | 27% | 10% | | | | 100% |
| 6 | 100% | 100% | | | 0% | |
| 8 | 100% | 100% | | 0% | 83% | |
| 10 | 100% | 100% | | | 100% | |
| 12 | | | | 0% | | |
| 15 | | | | 63% | | |
| 20 | | | 0% | 100% | | |
| 40 | | | 0% | | | |
| 60 | | | 20% | | | |
| 80 | | | 90% | | | |
| 100 | | | 100% | | | |
| Tolerance/ safe level (ppb) | 10 | 10 | 100 | 20 | 10 | 5 |
| Calculated 90–95% | 5.5 | 5.2 | 80.0 | 19.0 | 8.2 | 4.7 |

The drugs indicated with an asterisk () have demonstrated a 90-95% sensitivity of the test kit which is at least 25% less than the tolerance or safe level. Data is presented as a percent positive at each concentration. Sensitivity is based on 30 samples per concentration.

¹The ceftiofur tolerance is based on measuring the sum of ceftiofur and desfuryleceftiofur related metabolites in milk as desfuryleceftiofur.

Ordering Information

| Prod.# | Product description |
|--------|---|
| BSP102 | BetaStar Plus 25 – 25 pack |
| BSP114 | BetaStar Plus 250 – 250 pack |
| BT1L14 | Penicillin G Positive Control kit – 25 pack |
| 602376 | Incubator/Dry heater block (47.5°C) |
| 9590D | Reveal AccuScan III Reader |
| 9589A | Printer for AccuScan III |

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