

Technical Bulletin

Pharmasin®

Analysis of ten tylosin containing veterinary products for in feed usage

Introduction:

Several quality aspects of veterinary products are important to ensure adequate and safe treatment of animals.

Ten different registered antibiotics, containing tylosin 25% or 22% for in feed usage were collected out of countries of different parts of the world. Samples were investigated for:

- Impurities
- Content of tylosin: determined via antimicrobial assay
- % of component A

Three samples with an expected content of 25% tylosin and 7 samples with an expected content of 22% tylosin were investigated.

Results:

- Impurities

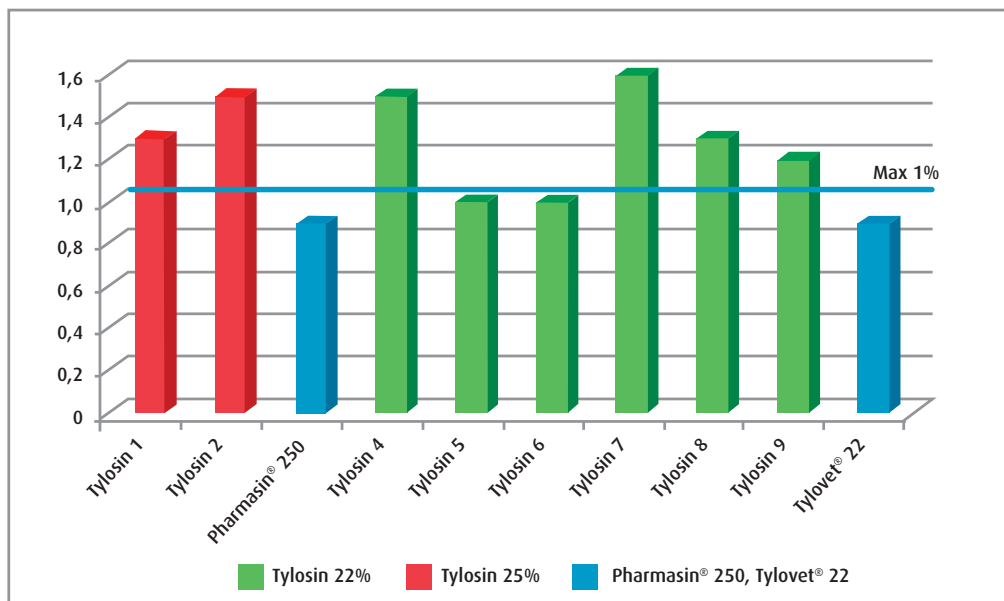


Figure 1. % any single unidentified impurities

- Content: Antimicrobial assay

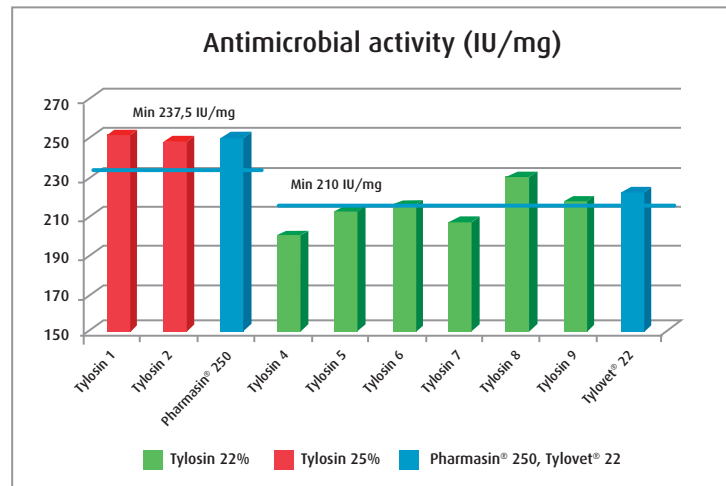


Figure 2. Content of tylosin, IU/mg

- % of the components

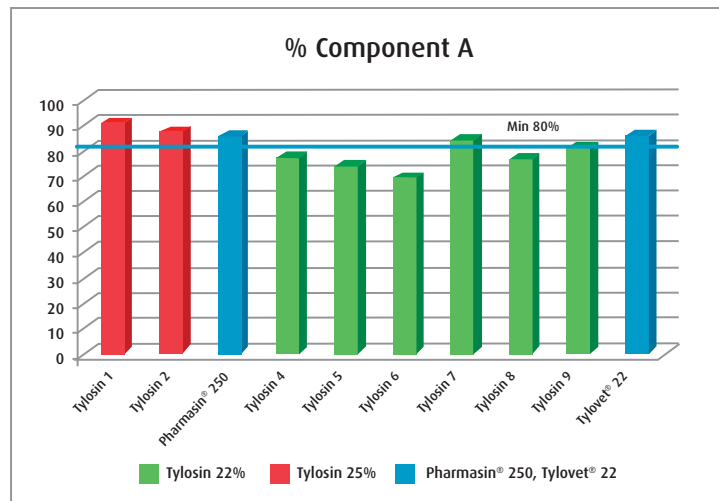


Figure 3. % of component A

Conclusions

- 6 samples had more than 1% unidentified single impurities
- 2 samples contained less than 210 IU/mg
- 4 samples didn't reach 80% of component A