

Technical Bulletin

Stability of Pharmasin® during pelleting at different conditioning times and temperatures

Focus

Mash feed supplemented with Pharmasin® premix was pelleted (die: 4 x 50 mm) with steam conditioning at 75°C, 85°C and 95°C and three different conditioning times (60, 90 and 120 seconds). 10 samples of 500 grams were taken of the mash and all produced pellets.

Parameters tested:

- Temperature and percentage moisture of the mash feed before and after conditioning
- Content of tylosin in the mash before conditioning and in the pellets (microbiological assay)

Results

Percentage moisture of the mash: 10.90 %

Mean percentage moisture of the mash conditioned at 75°C, 85°C and 95°C, was respectively: 15.17%, 15.47% and 16%.

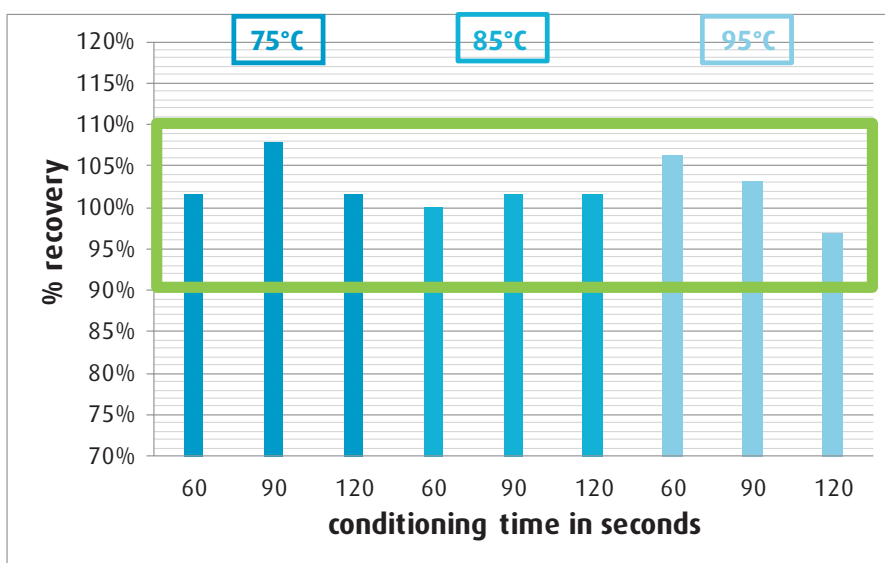


Figure 1. Average percentage (%) recovery of tylosin at different conditioning times and temperatures

All obtained results fall in a narrow range (97-108 %). The coefficient of variation (CV) of the obtained results (3%) is smaller than the CV of the method applied (10%) and can consequently be considered as the same.

Conclusions

- Pharmasin® is extremely stable during pelleting, even at high temperature (95°C) and long conditioning time (120 seconds).