



TRIAL: POULTRY

LithoFeed

Gumpenstein

TARGETS

The test was carried out in 4 mast passages at **the test station at Gumpenstein**. **LithoFeed** was mixed into the feed as an additive. Based on practical experience, the following effects were expected and analyzed accordingly:

- ✓ Odor reduction
- ✓ Ammonia reduction
- ✓ Lower failure rate
- ✓ Improved stable climate

CONDITIONS

Trial Period	4 test passes (each 35 fattening days), autumn 2018 - spring 2019
Number of animals	840 hens/mast passage
Application	Starter: 0.5% LithoFeed in the feed Middle and end: 1% LithoFeed in the feed
Comparison groups	4 passes with 1 control group and 1 test group each

CONCLUSION

LithoFeed had a positive effect to all 4 test passes. The general conditions were very good, so that very low emission values were measured both in the experimental group and the control group. Due to the use of **LithoFeed**, the odor load could be significantly reduced, especially in the second half of the mast. **LithoFeed** had an indirect positive influence on feed utilization, as the feed utilization was the same despite reduced energy in the feed. Especially the lower losses in the test groups are remarkable.



Chick week 1



Poultry week 4

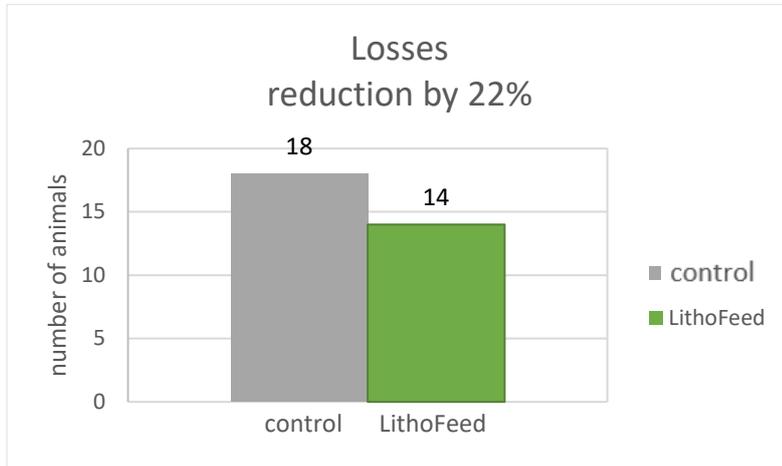


Experimental compartment

RESULTS

The results consist of average values of all 4 mast passes as well as exemplary individual values.

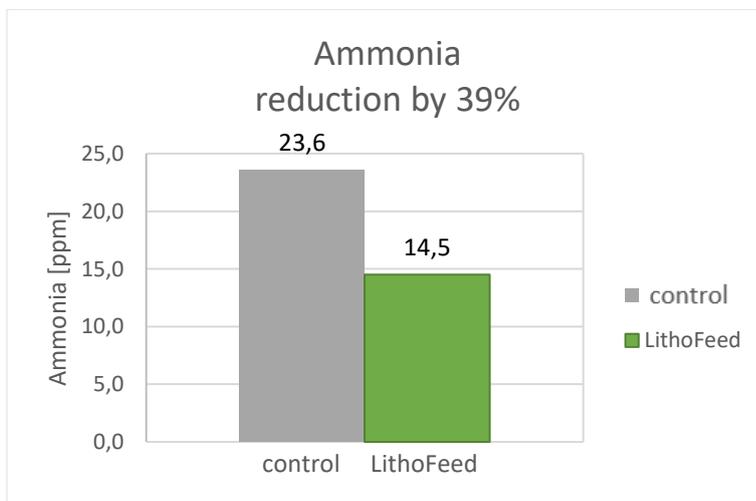
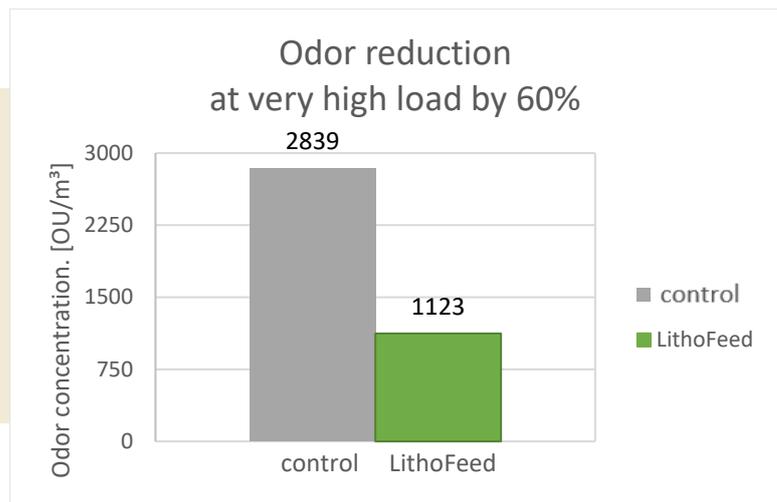
The feed **efficiency** was almost the same over all 4 passes (1,425 attempts, 1.42 control). **LithoFeed** showed an indirect **positive influence**, because despite reduced energy in the feed, the feed efficiency was at the same level.



LithoFeed was able to record a lower loss rate in the trial (control groups 17-23 animals, experiment with **LithoFeed** 14-21 animals). In the second mast passage, the **losses** were reduced by **22%** compared to the test group.

The use of **LithoFeed** has reduced the **odor** by **16%** in 4 groups over the entire duration of the experiment. With very high odor load towards the end of the fattening period, an **odor reduction of 60%** could be achieved.

Odor concentration equals one unit per m3.



The **ammonia emissions** could be reduced with the use of **LithoFeed** across all 4 mast passages in the second half of the mast duration. Individual passes showed a **reduction of up to 39%**.