

## Checklist: Demands on test report - Housing & management systems

<b>Name of technology</b>			
<b>Type of technology</b>			
<b>Manufacturer</b>			
<b>Application</b>	<b>Date</b>	<b>Country</b>	
<b>main environmental effect</b>			

<b>Demand</b>	<b>Ok</b>	<b>Comments</b>
The test report written in English		
<b>Necessary sections/chapters:</b>		
<b>Foreword</b>		
description of the three parties involved in the test: applicant, test organisation, farmers		
Specification of test period, incl. dates		
Date and signatures responsible person(s) of tests.		
name and address of the test organisation		
<b>Introduction</b>		
Need of the technology (optional)		
Description of the manufacturer/applicant and the housing system. If available: previous tests and references		
Data based on old or new data?		
<b>Materials and Methods (incl. pictures)</b>		
farms involved in the test		
Housing / management system used		
<b>Description of test site</b>		
animal category		
Number, dimensions of the sections and pens		
number of pens and animals per section		
Type of floor		
Dunging systems		
Feed systems		
Ventilation system		
<b>Test design</b>		
dimensioning of the test		
measurement methods & specification of instruments		
measurement method including measurement uncertainty		
measurement points and frequency		
Sampling procedure (where, when, how)		
calibration procedures		
statistical data processing method, including used models and the statistical software package		
<b>Results</b>		
specification of the measured <b>primary parameters</b> (odour, ammonia and dust)		
individual <b>raw data</b> (graphs plus processed data in tables with median, average and 95 percentile)		
Significance of treatment effects		

Checklist: test report (housing systems)

average and standard deviation of the <b>conditional measurement parameters</b> (tables and comments)		
evaluation of the <b>operating stability</b> (observations + all recorded data)		
<b>uptime</b> and efficiency corrected by the uptime factor		
Effects on NH <sub>3</sub> , greenhouse gas or dust <b>for each measuring day and housing unit 24h- average</b> of indoor/outdoor temperatures, ventilation rate, gas/dust concentration, calculated 24h emission		
Effects on odour <b>for each measuring day and housing unit:</b> Date, start time, duration of sampling, indoor/outdoor temperatures, ventilation rate during measurement, odour concentration, calculated 24h emission		
<b>For case-control design / &gt; 4 farms</b>		
<b>Calculated emissions</b> for each unit/farm and average for both case units/farms and both control units/farms		
<b>P-value for t-test</b> for significance between case vs. control and between farms based on calculated 24h-emission reduction (or based on average for each farm in case of > 4 farms set up)		
<b>For comparison with a norm</b>		
<b>Calculated emissions</b> for each farm and average for all farms		
<b>95 % confidence interval</b> of emission based on farm average		
<b>Potential risks (normal/unforeseen events)</b>		
Animal health and welfare		
occupational health and safety		
total (external) environment		
Food safety (e.g. of feed additives)		
Chemical regulations (if applicable)		
advice to the authorities for inspection of the system		
evaluation for applying the results to other types of animal housing/ animal categories cf. Annex I		
<b>Discussion and Conclusion</b>		
Discussion of results (incl. plausibility)		
Conclusion: sum up of the major results, general validation of system		
<b>References</b>		
<b>Annexes, if relevant</b>		