

Sample for Microbiological Laboratory Testing

Sample types received in the Microbiology Department include animal feed, slurries and any other unspecified solid or liquid sample (including swabs). Samples are sent to the laboratory with a completed Sciantec ARF stating all the tests that are required on the individual samples.

Samples for microbiological testing also need to be received within an appropriate time frame from when the sample was taken. For example, there are legal requirements for Compliance with Publicly Available Specification PAS100: 2018 & Compliance with Publicly Available Specification PAS110: 2014. Also ISO 17728:2015 for feed.

Samples are required to have appropriate packaging; this would include, but is not limited to, samples arriving in a sterile, sealed package and without any perforations. Samples that arrive in damaged/inappropriate packaging will not be tested and the customer will be notified as the sample may have been compromised and the results generated may not give a true representation. Sample bags should only be half full of sample allowing the laboratory to take a representative sample for analysis in line with BS ISO 7218:2007+A1:2013.

If samples require wet chemistry analysis as well as microbiological analysis, then separate samples should be sent.

Upon arrival in the laboratory microbiology samples take priority for logging in and testing is started as soon as possible in order for the results to be representative of the sample received.

For each microbiological test performed at Sciantec there is a minimum volume of sample required (see Table 1). If the volume required is not sent, the customer is notified and another suitably sized sample is requested.

Once analysis is underway, samples are stored appropriately (fridge, freezer/room temperature). On test completion and result approval, they are then disposed of due to the multiplication or death of bacteria over time (i.e. a dry feed sample that is stored at room temperature may increase in bacterial counts over the period of a week. A slurry sample which would be stored in a refrigerated unit reduces the metabolism of the bacteria and therefore may also reduce the bacterial counts obtained).

Table 1:

Test	Amount (g/ml)
Salmonella Feed	25
Salmonella Non-Feed	25
Salmonella ABPR	125
Enteros Feed	10
Enteros ABPR	50
E.coli enumeration	10
E.coli P100	10
E.coli P110	50
Coliform enumeration	10
Faecal Coliforms	10
Enterococci Spp.	10
TVC Aero 22	10
Test	Amount (g/ml)
TVC Aero 30	10
TVC Aero 37	10
TVC Ana 22	10
TVC Ana 30	10
TVC Ana 37	10
Yeast	10
Mould	10
Aspergillus spp.	10
Aspergillus Fumigatus	10

References

Compliance with Publicly Available Specification PAS100: 2018

Compliance with Publicly Available Specification PAS110: 2014

BS ISO 7218:2007+A1:2013 Microbiology of food and animal feeding stuffs — General requirements and guidance for microbiological examinations

For more information on Sciantec's services, or to request a quotation, please visit our website or contact us on the details provide below:



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